

OUR PRODUCTS • PROJECTS • TECHNOLOGIES •



FLUID EXPONENTS INC.

ENVIRONMENTAL TECHNOLOGY SOLUTIONS

(SUBSIDIARY FLUIDYNE CORP. CANADA)



SCAN ME!



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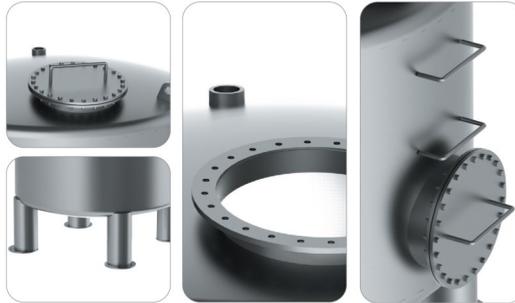


WST

WATER SOFTENER TANK/ HIGH EFFICIENCY MULTI-MEDIA FILTER

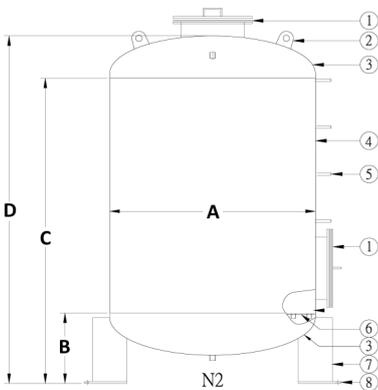
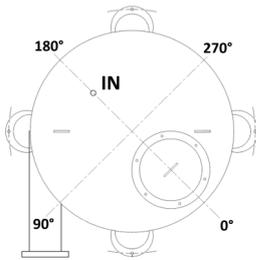
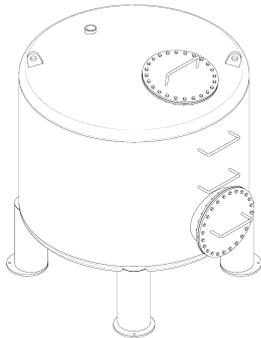
Design P. 0~2kg / cm²
Design T. 40°C

Material: SUS304 SUS316 SUS316L
Surface Finish: Acid-washed, Polished, and Other Unique Surface Finish



PARTS

1. Manhole
2. Lug
3. Top Cover
4. Shell
5. Ladder
6. Water Collecting Plate
7. Support Leg
8. Leg Base PLate



FEATURES

- For water softening.
- Made from MIT SS304 and SS316 materials. Suitable for various liquids.
- Shell strength calculation compliant to CNS standard.
- Convenient hand valve and electric valve for Inlet and Outlet.
- High flow capacity. High capacity.
- Electrolyzed surface finish.
- Sealed bottom cover and shell.
- High strength solid metal body for long lasting usage.

APPLICATIONS

- Water
- Groundwater
- Food Industries
- Environmental Industries
- Electronic Industries
- Machinery Oil
- Electroplating Industries
- Petrochemical Industries
- Pool
- Unique Liquid Filtration
- Industrial Waste Water Treatment

Model	A	B	C	D	N1	N2
FEWST-5	Ø762 30"	450 17.70"	1100 43.30"	1680 66.14"	1/2"PT-F	2"PT-F
FEWST-10	Ø970 38.18"	450 17.71"	1400 55.11"	2010 79.13"	1/2"PT-F	2"PT-F
FEWST-15	Ø1200 47.24"	500 19.68"	1300 51.18"	1945 76.57"	1/2"PT-F	2"PT-F
FEWST-20	Ø1300 51.18"	500 19.68"	1500 59.05"	2165 85.23"	1/2"PT-F	2"PT-F
FEWST-25	Ø1500 59.05"	500 19.68"	1500 59.05"	2200 86.61"	2"PT-F	2"PT-F
FEWST-30	Ø1500 59.05"	500 19.68"	1800 70.08"	2500 98.42"	2"PT-F	2"PT-F

WST
**WATER SOFTENER TANK/
HIGH EFFICIENCY MULTI-MEDIA FILTER**
PRODUCT CODE GUIDE

WST	5	4	3	1	1
PRODUCT CODE	VOLUME	MATERIAL	MANHOLE SIZE	INTERIOR SURFACE FINISH	EXTERIOR SURFACE FINISH
FEWST	5—500L	4—304	3—Ø300	1—Acid Washed	1—Acid Washed
	10—1000L	6—316	4—Ø400	2—Electrolyze	2—Electrolyze
	15—1500L	6L—316L	5—Ø500	3—Polished	3—Polished
	20—2000L				
	25—2500L				
	30—3000L				

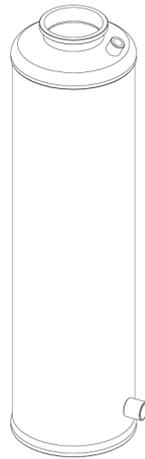
WSH

WATER SOFTENER FILTER HOUSING/ ZEOLITE RESIN & ACTIVATED CARBON FILTER HOUSING

Design P. 10kg / cm2
Design T. 65°C

Operating P. 7kg / cm2
Operating T. 40°C

Material: SUS304 SUS316 SUS316L
Surface Finish: Acid-washed, Polished, and Other
Unique Surface Finish

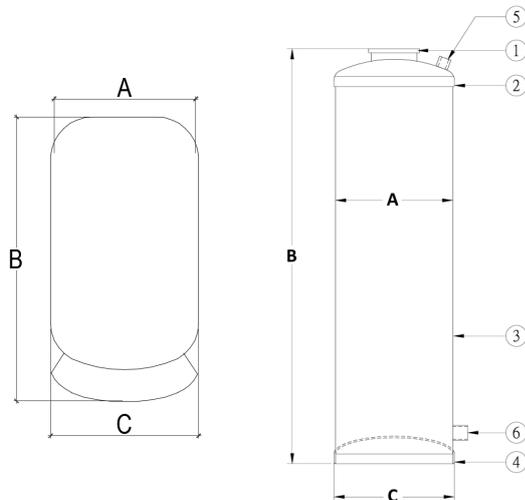


FEATURES

- For water softening.
- Made from MIT SS304 and SS316 materials. Suitable for various liquids.
- Shell strength calculation compliant to CNS standard.
- Convenient hand valve and electric valve for Inlet and Outlet.
- High flow capacity. High capacity.
- Sealed bottom cover and shell.
- High strength solid metal body for long lasting usage.

APPLICATIONS

- Water
- Groundwater
- Food Industries
- Environmental Industries
- Electronic Industries
- Machinery Oil
- Electroplating Industries
- Petrochemical Industries
- Pool
- Unique Liquid Filtration
- Industrial Waste Water Treatment



Model	A	B	C	WEIGHT	VOLUME
FEWSH-18	Ø232 9.13"	459 18"	Ø238 9.37"	9 KG	19 L
FEWSH-35	Ø232 9.13"	896 35.27"	Ø238 9.37"	12 KG	37 L
FEWSH-40	Ø232 9.13"	1018 40.08"	Ø238 9.37"	13 KG	43 L
FEWSH-9	Ø241 3" NPT 9.5"	Ø406 16"	Ø300 11.8"	5 KG	19 L
FE-H/C-P	325 12.79"	950 37.40"	325 12.79"	14 KG	20 L

WSH WATER SOFTENER FILTER HOUSING/
ZEOLITE RESIN & ACTIVATED CARBON
FILTER HOUSING

PRODUCT CODE GUIDE

WSH	9	18	4	1	1	4
PRODUCT CODE	DIAMETER	HEIGHT	MATERIAL	INTERIOR SURFACE FINISH	EXTERIOR SURFACE FINISH	CONTROLLER CONNECTION
FEWSH	9—9.13"	18—18"	4—304	1—Acid Washed	1—Acid Washed	4—4"
		35—35"	6—316	2—Electrolyze	2—Electrolyze	221—2-1/2"
		40—40"	6L—316L	3—Polished	3—Polished	



LPH

LOW PRESSURE FILTER BAG HOUSING



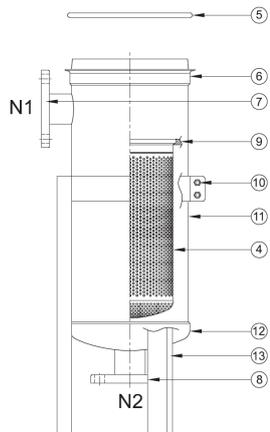
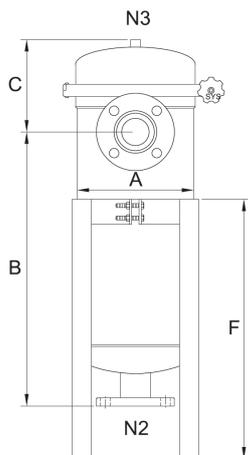
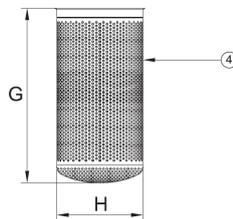
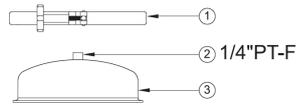
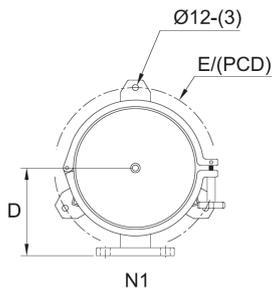
Design P. 10kg / cm²
Design T. 100°C

Operating P. 7kg / cm²
Operating T. 75°C

Material: SUS304 SUS316 SUS316L

Surface Finish: Acid-washed, Polished, and Other Unique Surface Finish

O-ring: EPDM, Viton, Silicone, NBR, Silicone + Teflon



FEATURES

- Top cover matches with SYS clamp. Easy to clean.
- Made from MIT SS304 and SS316 materials. Suitable for various liquids.
- Shell strength calculation compliant to CNS standard.
- Convenient hand valve and electric valve for Inlet and Outlet.
- Replace filter bags without using any tools.
- Durable steel basket.
- High strength solid metal body for long lasting usage.
- Adjustable leg height.

PARTS

1. Clamp
2. Vent
3. Top Cover
4. Basket
5. O-Ring
6. Shell Flange
7. Port Inlet
8. Port Outlet
9. Filter Bag Plate
10. Bolt
11. Shell
12. Bottom Cover
13. Support Leg

APPLICATIONS

- Water
- Groundwater
- Food Industries
- Beverage Industries
- Environmental Industries
- Electronic Industries
- Machinery Oil
- Electroplating Industries
- Petrochemical Industries
- Pool
- Unique Liquid Filtration

LPH
LOW PRESSURE FILTER BAG HOUSING

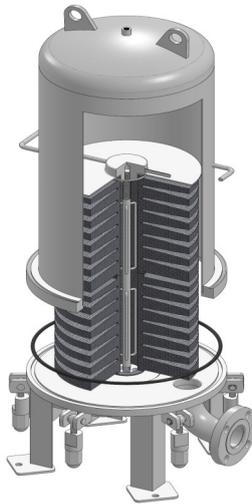
Model	A	B	C	D	E (PCD)	F	G	H	M ³ /Hr	GPM	WEIGHT	VOLUME
FELPH-1	Ø232 9.13"	550 21.65"	185 7.28"	176 6.93"	323 12.72"	600 23.62"	350 13.78"	171.5 6.75"	20	90	21 KG	27 L
FELPH-2	Ø232 9.13"	1005 39.57"	185 7.28"	176 6.93"	323 12.72"	600 23.62"	730 28.74"	171.5 6.75"	45	200	26 KG	46 L
FELPH-3	Ø180 7.09"	360 14.17"	175 6.89"	150 5.91"	252 9.92"	350 13.78"	200 7.87"	97.5 3.84"	4.5	20	14 KG	11 L
FELPH-4	Ø180 7.09"	495 19.49"	175 6.89"	150 5.91"	252 9.92"	350 13.78"	310 12.20"	97.5 3.84"	9	45	15 KG	14 L

PRODUCT CODE GUIDE

LPH	1	4	50	10K	SB	E	12
PRODUCT CODE	LENGTH OF BAG	MATERIAL	INLET & OUTLET SIZE	INLET & OUTLET TYPE	INLET & OUTLET LOCATION	O-RING MATERIAL	SURFACE FINISH
FELPH	1—No.1 Bag	4—304	15—1/2"	10K—JIS	SS—Side In & Out	E—EPDM	Interior Surface Finish
	2—No.2 Bag	6—316	20—3/4"	150P—ANSI	SB—Side In & Bottom Out	V—Viton	1—Acid Washed
	3—No.3 Bag	6L—316L	25—1"	PN10—DIN		N—NBR	2—Electrolyze
	4—No.4 Bag		40—1-1/2"	J—Clamp		S—Silicone	3—Polished
			50—2"	PF—PTF		TS—Teflon + Silicone	Exterior Surface Finish
			65—2-1/2"	BF—BSPF			1—Acid Washed
			80—3"	NF—NPTF			2—Electrolyze
				PM—PTM			3—Polished
				BM—BSPM			
				NM—NPTM			

SFH

SANITARY PLATE TYPE CARTRIDGE FILTER HOUSING



Design P. 10kg / cm² Operating P. 7kg / cm²
 Design T. 100°C Operating T. 75°C

Material: SUS304 SUS316 SUS316L
 Surface Finish: Acid-washed, Polished, and Other Unique Surface Finish
 O-ring: EPDM/VITON/NBR/PTFE

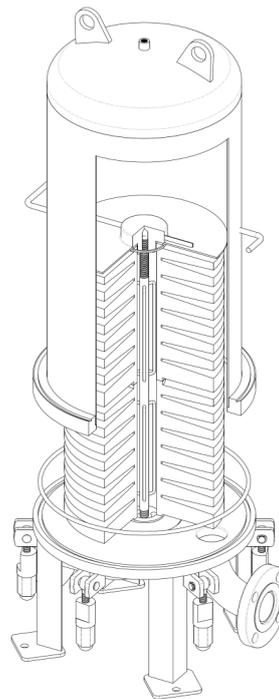
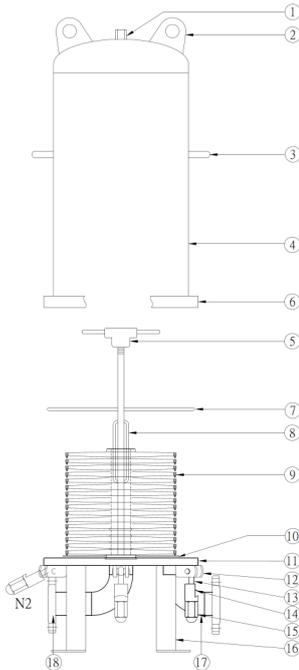
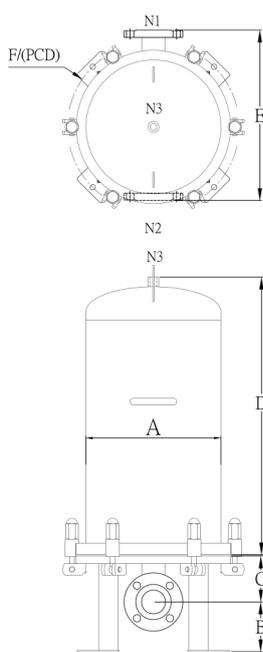


PARTS

FEATURES

- Interior & exterior polish degree of sanitary cartridge filter housing is #400, surface polished as mirror
- Sanitary cartridge filter housing manufactures with no dead-angle design and no bacteria retaining
- Sanitary cartridge length 20" , 30"and 40" using 2 clamps design, easy open and clean from base and easy change cartridge
- Sanitary cartridge plate is forged, adding the resistance and would not be deformed easily
- Inlet and outlet are parallel design and easy install
- Patented clamp design could be opened without using any tools

1. Vent
2. Lug
3. Handle
4. Shell
5. Nut
6. Top Cover Flange
7. O-Ring
8. Center Post
9. Filter Cartridge
10. Support Plate
11. Base
12. Eye Bolt Socket
13. Eye Bolt
14. Padlock
15. Nut
16. Support Leg
17. Port Inlet
18. Port Outlet



APPLICATIONS

- Water
- Groundwater
- Food Industries
- Beverage Industries
- Environmental Industries
- Electronic Industries
- Machinery Oil
- Electroplating Industries
- Petrochemical Industries
- Pool
- Unique Liquid Filtration
- Industrial Waste Water Treatment

SFH
SANITARY PLATE TYPE CARTRIDGE FILTER HOUSING

Model	A	B	C	D	E	F	G	H	M ³ /Hr	GPM	WEIGHT	VOLUME
					(PCD)							
FESFH-1	Ø232	550	185	176	323	600	350	171.5	20	90	21 KG	27 L
	9.13"	21.65"	7.28"	6.93"	12.72"	23.62"	13.78"	6.75"				
FESFH-2	Ø232	1005	185	176	323	600	730	171.5	45	200	26 KG	46 L
	9.13"	39.57"	7.28"	6.93"	12.72"	23.62"	28.74"	6.75"				
FELPH-3	Ø180	360	175	150	252	350	200	97.5	4.5	20	14 KG	11 L
	7.09"	14.17"	6.89"	5.91"	9.92"	13.78"	7.87"	3.84"				
FELPH-4	Ø180	495	175	150	252	350	310	97.5	9	45	15 KG	14 L
	7.09"	19.49"	6.89"	5.91"	9.92"	13.78"	12.20"	3.84"				

PRODUCT CODE GUIDE

LPH	1	4	50	10K	SB	E	12
PRODUCT CODE	LENGTH OF BAG	MATERIAL	INLET & OUTLET SIZE	INLET & OUTLET TYPE	INLET & OUTLET LOCATION	O-RING MATERIAL	SURFACE FINISH
LPH	1—No.1 Bag	4—304	15—1/2"	10K—JIS	SS—Side In & Out	E—EPDM	Interior Surface Finish
	2—No.2 Bag	6—316	20—3/4"	150P—ANSI	SB—Side In & Bottom Out	V—Viton	1—Acid Washed
	3—No.3 Bag	6L—316L	25—1"	PN10—DIN		N—NBR	2—Electrolyze
	4—No.4 Bag		40—1-1/2"	J—Clamp		S—Silicone	3—Polished
			50—2"	PF—PTF		TS—Teflon	Exterior Surface Finish
			65—2-1/2"	BF—BSPF		+ Silicone	1—Acid Washed
			80—3"	NF—NPTF			2—Electrolyze
				PM—PTM			3—Polished
				BM—BSPM			
				NM—NPTM			

FEOZ
**INDUSTRIAL OZONE GENERATOR
MODEL FEOZ100C3-MC**

FEOZ100C3-MC
APPLICATIONS
Agriculture

- Irrigation
- Fruit
- Vegetable

Food Factory

- Slaughterhouse
- Food
- Poultry Feeding Farms
- Health Care Products

Pharmaceutical

- Sterile Disposable Medical Devices
- Dental Products
- Surgical Instruments

Health Care

- Swimming Pools
- SPAs

Drinking & Bottled Water

- Waterworks
- Drinks Plant
- Bottled Water Plant

Hospital

- Bedding
- Clothes
- Operating Theatres
- Wards

Air Conditioning

- Cooled Air Conditioner
- Cooling Towers

Laundries

- Hotels
- Hospitals
- Nursing Homes

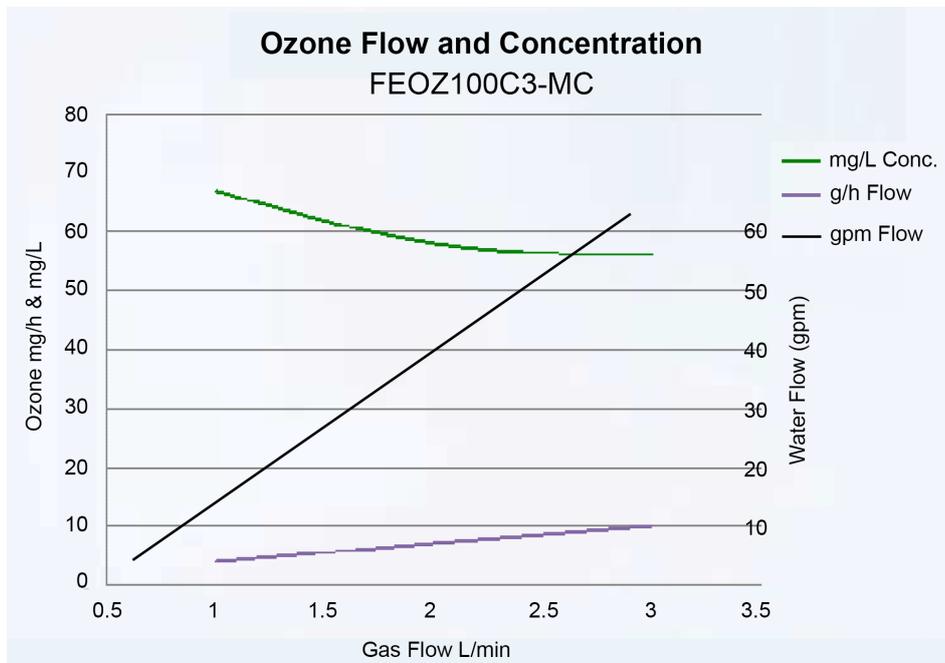
Others
TECHNICAL SPECIFICATION

Ozone Output	10 g/h. Adjustable 4.0-10.0 g/h
Ozone Concentration	> 55 mg/L at 3.0 L/min gas flow
Gas Flow	Adjustable 0.5-3.0 L/min
Oxygen Purity	> 90%
Life	> 15,000 hours
Output Connections	OD 5.0mm
Continuous Operation	24 h/day
Cooling System	Air cooling, built-in 2 x 80 CFM fans
Ozone Generating Method	Corona Discharge
Input Voltage	220 V AC 50 Hz (60 Hz optional)
Rated Power	< 330 W
Size L x W x H	275 x 270 x 392 mm
Product Weight	16.7 kgs/pc
Mounting Type	Wall-mounting along bracket

FEOZ

INDUSTRIAL OZONE GENERATOR MODEL FEOZ100C3-MC

FEZ100C3-MC			OC 03
GAS FLOW	OZONE CONC.	OZONE FLOW	OXYGEN PURITY
L/min	Mg/L	g/h	%
1.0	67.0	4.0	94.0
1.5	62.0	6.0	94.0
2.0	58.0	7.0	94.0
2.5	57.0	9.0	94.0
3.0	56.0	10.1	94.0



FEOZ
**INDUSTRIAL OZONE GENERATOR
MODEL FEOZ180C5-LF**

FEOZ180C5-LF
APPLICATIONS
Agriculture

- Irrigation
- Fruit
- Vegetable

Food Factory

- Slaughterhouse
- Food
- Poultry Feeding Farms
- Health Care Products

Pharmaceutical

- Sterile Disposable Medical Devices
- Dental Products
- Surgical Instruments

Health Care

- Swimming Pools
- SPAs

Drinking & Bottled Water

- Waterworks
- Drinks Plant
- Bottled Water Plant

Hospital

- Bedding
- Clothes
- Operating Theatres
- Wards

Air Conditioning

- Cooled Air Conditioner
- Cooling Towers

Laundries

- Hotels
- Hospitals
- Nursing Homes

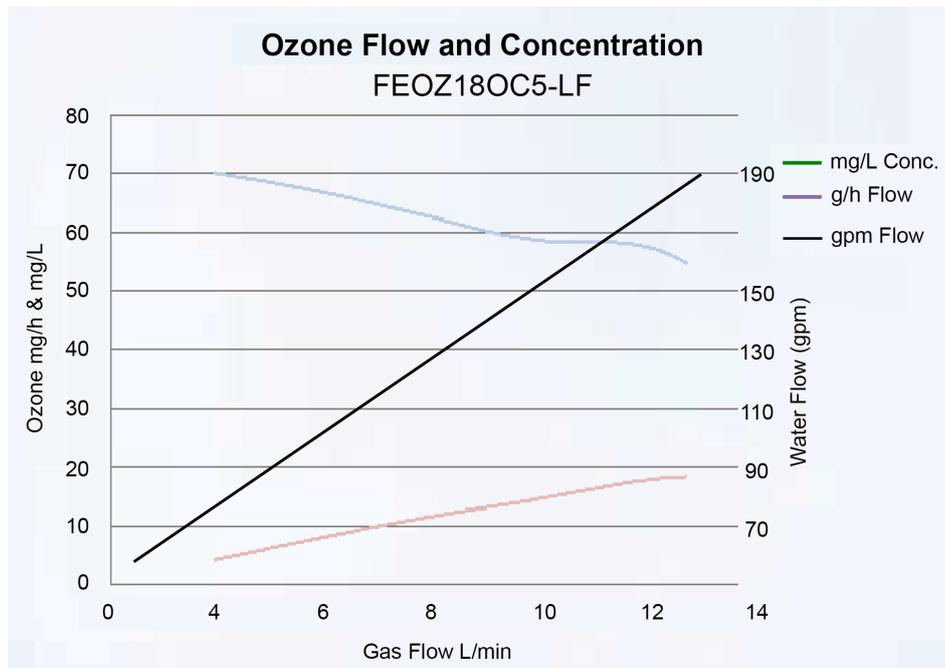
Others
TECHNICAL SPECIFICATION

Ozone Output	18 g/h. Adjustable 6.0-18.0 g/h
Ozone Concentration	> 58 mg/L at 5.0 L/min gas flow
Gas Flow	Adjustable 1.0-5.0 L/min
Oxygen Purity	> 90%
Life	> 15,000 hours
Output Connections	OD 5.0mm
Continuous Operation	24 h/day
Cooling System	Air cooling, built-in 1 x 80 CFM fans, 2 x 40 CFM fans
Ozone Generating Method	Corona Discharge
Input Voltage	220 V AC 50 Hz (60 Hz optional)
Rated Power	< 660 W
Size L x W x H	381 x 350 x 560 mm
Product Weight	45 kgs/pc
Moveability	4 caster wheels

FEOZ

INDUSTRIAL OZONE GENERATOR MODEL FEOZ18OC5-LF

FEOZ18OC5-LF			OC 03
GAS FLOW	OZONE CONC.	OZONE FLOW	OXYGEN PURITY
L/min	Mg/L	g/h	%
1.0	70.0	4.2	96.8
2.0	67.0	8.0	96.8
3.0	63.0	11.3	96.8
4.0	59.0	14.2	96.4
5.0	58.0	17.4	96.3
5.5	55.0	18.2	93.0



FEOZ
**INDUSTRIAL OZONE GENERATOR
MODEL FEOZ280C8-LF**

FEOZ280C8-LF
APPLICATIONS
Agriculture

- Irrigation
- Fruit
- Vegetable

Food Factory

- Slaughterhouse
- Food
- Poultry Feeding Farms
- Health Care Products

Pharmaceutical

- Sterile Disposable Medical Devices
- Dental Products
- Surgical Instruments

Health Care

- Swimming Pools
- SPAs

Drinking & Bottled Water

- Waterworks
- Drinks Plant
- Bottled Water Plant

Hospital

- Bedding
- Clothes
- Operating Theatres
- Wards

Air Conditioning

- Cooled Air Conditioner
- Cooling Towers

Laundries

- Hotels
- Hospitals
- Nursing Homes

Others
TECHNICAL SPECIFICATION

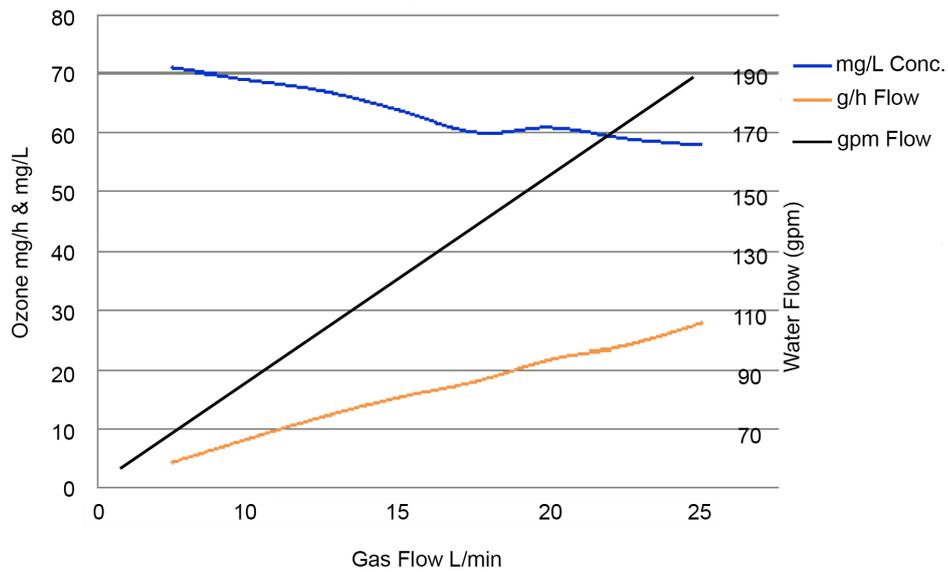
Ozone Output	28 g/h. Adjustable 8.0-28.0 g/h
Ozone Concentration	> 58 mg/L at 8.0 L/min gas flow
Gas Flow	Adjustable 1.0-8.0 L/min
Oxygen Purity	> 90%
Life	> 15,000 hours
Output Connections	OD 6.0mm
Continuous Operation	24 h/day
Cooling System	Air cooling, built-in 1 x 80 CFM fans, 3 x 40 CFM fans
Ozone Generating Method	Corona Discharge
Input Voltage	220 V AC 50 Hz (60 Hz optional)
Rated Power	< 860 W
Size L x W x H	381 x 350 x 560 mm
Product Weight	47 kgs/pc
Moveability	4 caster wheels

FEOZ

INDUSTRIAL OZONE GENERATOR MODEL FEOZ280C8-LF

FEOZ280C8-LF			OC 03
GAS FLOW	OZONE CONC.	OZONE FLOW	OXYGEN PURITY
L/min	Mg/L	g/h	%
1.0	71.0	4.3	96.8
2.0	69.0	8.3	96.8
3.0	67.0	12.1	96.8
4.0	64.0	15.4	96.8
5.0	60.0	18.0	96.8
6.0	61.0	22.0	96.8
7.0	59.0	24.8	96.8
8.0	58.0	27.8	96.8

Ozone Flow and Concentration
FEOZ280C8-LF



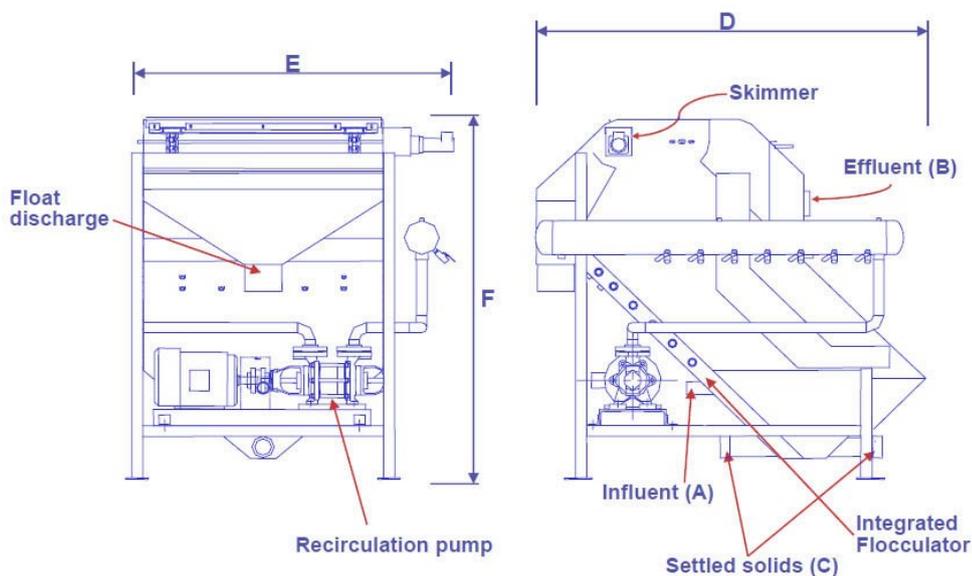
DAF

DISSOLVED AIR FLOTATION MD SERIES



- MD Series MicroDAF systems are no longer "New" as they have been deployed around the world for over 15 years now, but they are still unique in design. The MD Series MicroDAF is specifically designed utilizing a tilted, open-tank design and can be used to treat waste streams in both primary and secondary applications. Combining characteristics from both the HR and HS designs, the MD Series is ideally suited for applications with smaller flow rates. Designed to handle both floating and settling solids effectively, the MD series DAF is a very versatile machine for many different applications.
- The unique tank design of these machines allows for a very cost-effective manufacturing process which is a challenge for small DAF designs. When you have a small flow rate and small budget, MD Series MicroDAFs are the way to go.

MD SERIES



DAF
**DISSOLVED AIR FLOTATION
MD SERIES**

DESCRIPTION	UNITS	MODEL NUMBER				
		24-24	24-42	36-42	36-84	48-84
Capacity	GPM	12	19	28	63	79
Surface Area	ft. ²	5.8	9.6	13.9	31.8	39.6
Overflow Rate	GPM / ft. ²	2.0	2.0	2.0	2.0	2.0
A—Influent	Dia. In.	1.5	1.5	2	3	3
B—Effluent	Dia. In.	4	4	4	6	6
C—Settled Solids	Dia. In.	3	3	3	3	3
D—Length	Ft. / In.	60"	68"	84"	100"	144"
E—Width	Ft. / In.	40"	58"	63"	104"	104"
F—Height	Ft. / In.	68"	68"	75"	95"	102"

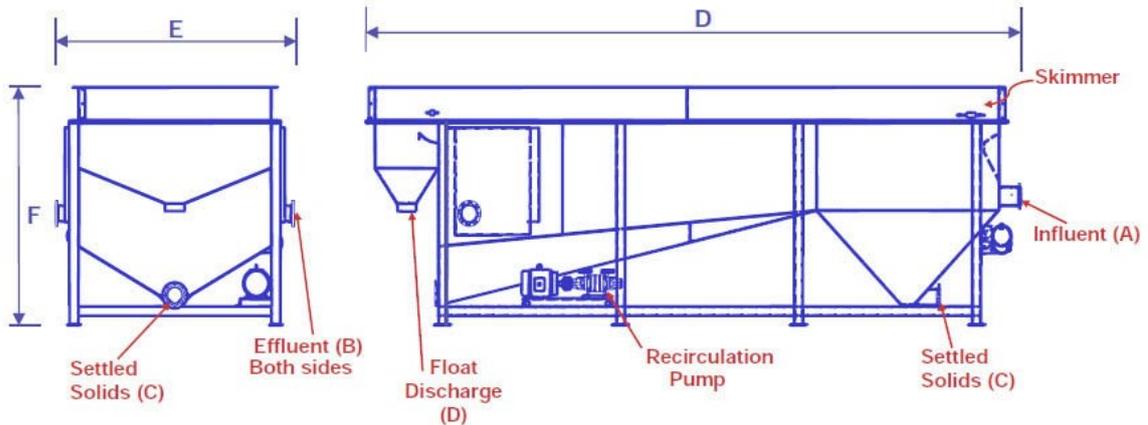
DAF

DISSOLVED AIR FLOTATION HS SERIES



- HS Series DAF systems are specifically designed utilizing an open-tank design and can be used to treat waste streams in both primary and secondary applications. The HS Series units are large in size relative to their HR Series counterparts. This increased size allows for large Free Surface Areas to handle very high solids loadings. Designed to handle both floating and settling solids effectively, the HS series DAF is a very versatile machine for many different applications.

HS SERIES



DESCRIPTION	UNITS	MODEL NUMBER						
		HS-90	HS-175	HS-275	HS-400	HS-600	HS-900	HS-1200
Capacity	GPM	90	175	275	400	600	900	1200
Surface Area	ft. ²	46	95	152	228	336	455	604
Overflow Rate	GPM / ft. ²	2	2	2	2	2	2	2
A—Influent	Dia. In.	4	6	6	6	8	10	12
B—Effluent	Dia. In.	6	8	10	10	10	12	14
C—Settled Solids	Dia. In.	6	6	6	6	6	6	6
D—Float Discharge	Dia. In.	8	8	8	8	10	10	10
D—Length	Ft. / In.	10' 9"	17' 9"	25' 9"	27' 9"	37' 9"	48' 9"	62' 9"
E—Width	Ft. / In.	8' 0"	8' 0"	8' 0"	12' 0"	12' 0"	12' 0"	12' 0"
F—Height	Ft. / In.	8' 3"	8' 3"	8' 3"	10' 8"	10' 8"	10' 8"	10' 8"

DAF

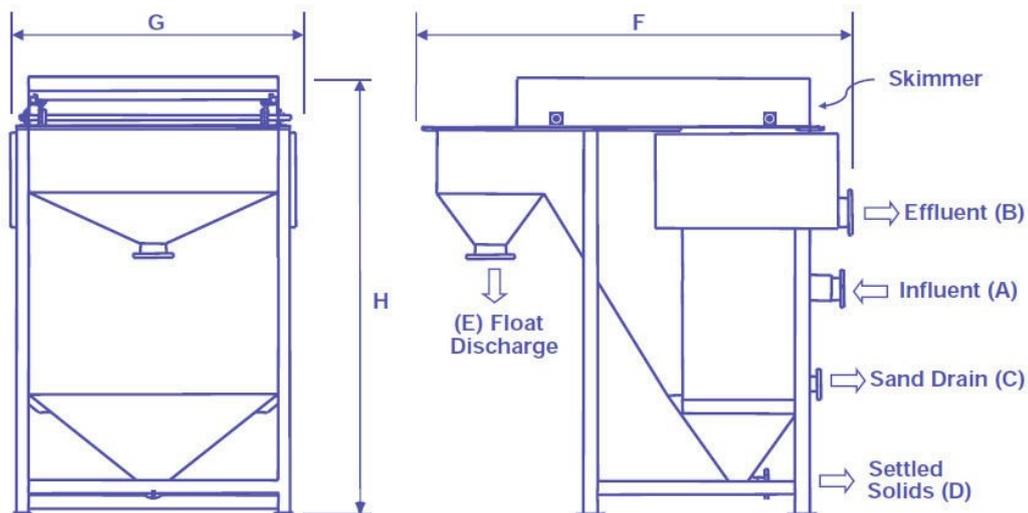
DISSOLVED AIR FLOTATION HR SERIES



HR SERIES

- HR Series DAF systems are specifically designed utilizing inclined plate technology and can be used to treat waste streams in both primary and secondary applications. The HR Series units are compact in size relative to the amount of flow they can treat. Designed to handle both floating and settling solids effectively, the HR series DAF is a very versatile machine for many different applications.
- The inclined plate design of the HR Series allows for the utilization of effective surface area to significantly increase the hydraulic capacity of these machines while preventing solids build-up often found in systems with plates or media.

The HR Series DAFs utilize the unique PTEC Skimmer System that is known for reliability and low maintenance. The settled solids removal system is also simple and low to no maintenance. These low maintenance characteristics combined with a heavy-duty design and proven treatment efficiencies allows these machines to be the safest and best place to spend your capital when considering DAF for your application.



DAF
**DISSOLVED AIR FLOTATION
HR SERIES**

DESCRIPTION	UNITS	MODEL NUMBER				
		HR-100	HR-200	HR-400	HR-600	HR-800
Capacity	GPM	100	200	400	600	800
Free Surface	ft. ²	19	38	64	90	92
Effective Plate Surface	ft. ²	93	185	371	556	742
Overflow Rate	GPM / ft. ²	1.1	1.1	1.1	1.1	1
A—Influent	Dia. In.	4	6	6	8	10
B—Effluent	Dia. In.	6	8	10	12	12
C—Sand Drain	Dia. In.	2	4	4	4	4
D—Settled Solids Drain	Dia. In.	4	4	6	6	6
E—Float Discharge	Dia. In.	6	8	10	10	10
F—Length	Ft. / In.	10' 0"	10' 0"	13' 6"	17' 0"	18' 0"
G—Width	Ft. / In.	4' 6"	8' 0"	8' 0"	8' 0"	8' 5"
H—Height	Ft. / In.	10' 10"	10' 10"	10' 10"	10' 10"	10' 10"

DESCRIPTION	UNITS	MODEL NUMBER				
		HR-1200	HR-1600	HR-2000	HR-2400	HR-3000
Capacity	GPM	1200	1600	2000	2400	3000
Free Surface	ft. ²	117	143	168	216	260
Effective Plate Surface	ft. ²	1113	1485	1856	2227	2783
Overflow Rate	GPM / ft. ²	1	1	1	1	1
A—Influent	Dia. In.	12	14	16	16	18
B—Effluent	Dia. In.	14	14	18	18	20
C—Sand Drain	Dia. In.	4	4	4	6	6
D—Settled Solids Drain	Dia. In.	6	6	6	6	6
E—Float Discharge	Dia. In.	10	10	10	12	12
F—Length	Ft. / In.	21' 6"	25' 0"	29' 6"	25' 0"	30' 2"
G—Width	Ft. / In.	8' 5"	8' 5"	9' 6"	12' 0"	13' 2"
H—Height	Ft. / In.	16' 0"	16' 0"	16' 0"	16' 0"	16' 0"

FEWP

SEA WATER DESALINATION RO SYSTEM / WATER TREATMENT PLANT WITH RO SYSTEM



FEWP-125L—15000L

RO PLANT DETAIL SPECIFICATION

- **Sand Filter** - mainly used for the removal of the sediment from water.
- **Carbon Filter** - mainly used for chlorine removal and other organic gases, also to clear up the taste of water.
- **Water Softener** - exchange “Ions” of calcium and magnesium with the most common and easiest method.
- **High Pressure Pump** - provide the high pressure to RO membrane.
- **RO Unit** - the main part of the plant. The RO membrane’s desalting rate can reach 99%, removing over 99% ions.
- **Pure Water Tank** - after the process below, the water result is pure enough for different applications.



FEWP

SEA WATER DESALINATION RO SYSTEM / WATER TREATMENT PLANT WITH RO SYSTEM



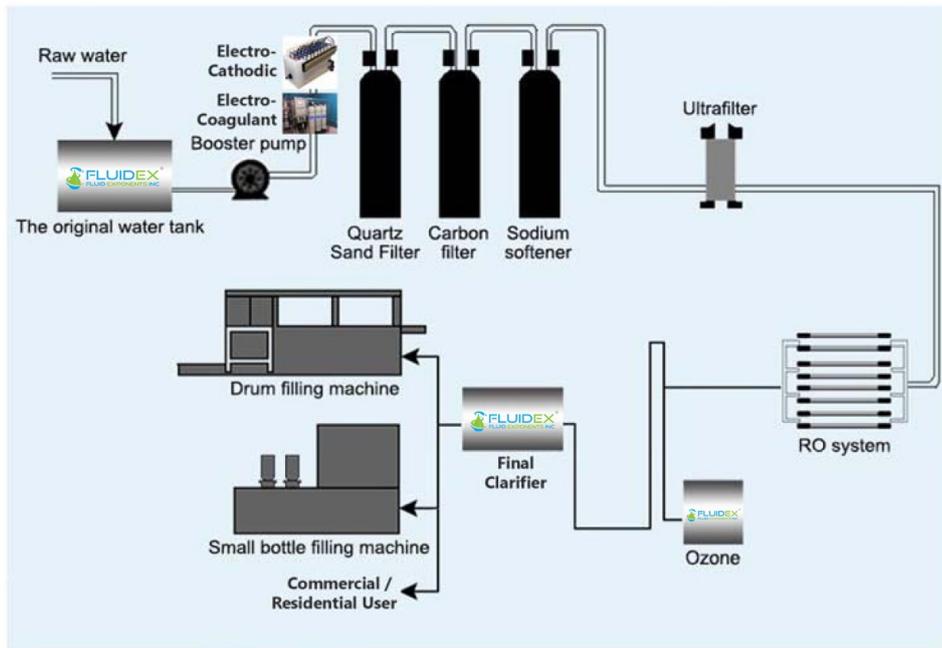
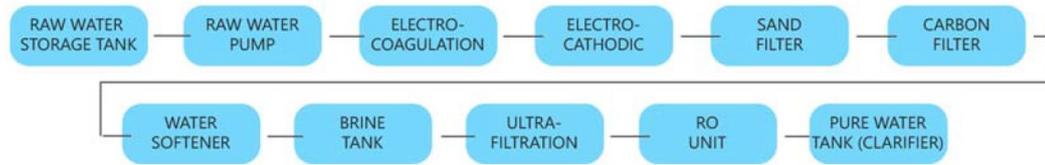
PRODUCT DETAILS



FEWP

SEA WATER DESALINATION RO SYSTEM / WATER TREATMENT PLANT WITH RO SYSTEM

OPERATING PROCESS



MODEL	CAPABILITY (GPM)	OPERATION (MPa)	MEMBRANE (Inch)	MEMBRANE (Qty)	POWER (KW)
FEWP—125L	0.55	1.0—1.4	4021	1	1.1
FEWP—250L	1.10	1.0—1.4	4040	1	1.1
FEWP—500L	2.20	1.0—1.4	4040	2	1.5
FEWP—750L	3.30	1.0—1.4	4040	3	2.2
FEWP—1000L	4.40	1.0—1.4	4040	4	2.2
FEWP—1500L	6.60	1.0—1.4	4040	6	3
FEWP—2000L	8.80	1.0—1.4	4040	8	3
FEWP—3000L	13.20	1.0—1.4	4040	12	4
FEWP—5000L	22.00	1.0—1.4	8040	5	5.5
FEWP—10000L	44.40	1.0—1.4	8040	10	11
FEWP—15000L	66.00	1.0—1.4	8040	15	15

FE
MECHANICAL FILTER

TECHNICAL PARAMETERS:

Anti-Corrosive Treatment: Rubber Lining, Epoxy Resin Coating
Housing Material: Q235B, SUS304, SUS316L, Carbon Steel
Designed Pressure: 0.6Mpa - 87 psig (if higher pressure is required, contact Fluid Exponents)
Working Temperature: 5°C—40° C (Can OEM)
Per Filter Flow: 1-100M³/hr

MECHANICAL FILTER/MULTI-MEDIA

Multi-media Filter
 Sand Filter
 Activated Carbon Filter
 Manganese Sand Filter

Automatic Backwash
 Gravitational Pressurized Bed

MODEL	A Diameter	B Height	C Thickness	D Inlet/Outlet	E Max. Performance @ / 1-10 Micron
FE100FB	810	900	4 mm	1.0" Fiberglass	18 gpm @ 100 psig Max Working Pressure
	32"	36"	0.16"	Inlet/Outlet	
FE150SST	900	1000	4 mm	1.5" Threaded	40 gpm @ 100 psig Max Working Pressure
	36"	40"	0.16"	Inlet/Outlet	
FE201SST	1000	1200	4 mm	2" Threaded	70 gpm @ 100 psig Max Working Pressure
	40"	48"	0.16"	Inlet/Outlet	
FE250SST	1000	1200	6 mm	3" Threaded	130 gpm @ 100 psig Max Working Pressure
	40"	48"	0.24"	Inlet/Outlet	
FE301SSF	1200	1450	6 mm	3" ANSI Flange	150 gpm @ 100 psig Max Working Pressure
	48"	57"	0.24"	Inlet/Outlet	
FE401SSF	1400	1700	6 mm	4" ANSI Flange	260 gpm @ 100 psig Max Working Pressure
	55"	67"	0.24"	Inlet/Outlet	
FE501SSF	1600	1900	6 mm	5" ANSI Flange	420 gpm @ 100 psig Max Working Pressure
	63"	75"	0.24"	Inlet/Outlet	
FE601SSF	2000	2200	6 mm	6" ANSI Flange	600 gpm @ 100 psig Max Working Pressure
	79"	87"	0.24"	Inlet/Outlet	
FE801SSF	2000	2400	6 mm	8" ANSI Flange	1000 gpm @ 100 psig Max Working Pressure
	79"	95"	0.24"	Inlet/Outlet	

ST
STERILE WATER TANK

TECHNICAL PARAMETERS:

Finishes: Mirror Finish, Brushed Finish, Sandblast

Inner Finish: Mirror Finish, Rubber Lining, Plastic Lining

Housing Material: SUS304, SUS316L

Working Pressure: Normal Pressure

Working Temperature: 5°C—45° C

MECHANICAL FILTER:

Multi-media Filter

Sand Filter

Activated Carbon Filter

Manganese Sand Filter

MODEL	A Diameter	B Vessel Height	C Total Height	D Thickness	E Inlet/Outlet	Volume (M ³)
FEST-0.5	700	1220	1850	1.5	DN25	0.5
FEST-1	1000	1220	2200	1.5	DN32	1
FEST-2	1400	1220	2500	2	DN32	2
FEST-3	1600	1500	2900	3	DN40	3
FEST-4	1800	1500	2950	4	DN40	4
FEST-5	2000	1500	3150	4	DN50	5
FEST-6	2200	1500	3250	4	DN50	6
FEST-8	2400	1500	3350	4	DN65	8
FEST-10	2500	2000	3850	4-5	DN65	10

UV
ULTRAVIOLET STERILIZER

UV LIGHT SYSTEM SELECTION CHART

MODEL	Diameter*Length (mm)	Connect Pipe Size (IN)	Single Lamp (W)	Lamp Quan- tity	Watt	Flows
FE-A-UV-1	900*89	1"	75W	1	75W	5-15
FE-A-UV-2	900*108	1.5"	75W	1	75W	15-25
FE-A-UV-3	900*108	1.5"	75W	2	150W	25-30
FE-A-UV-4	900*133	2"	75W	1	75W	30-40
FE-A-UV-5	900*133	2"	75W	2	150W	40-50
FE-A-UV-6	900*133	2"	75W	3	225W	50-60
FE-A-UV-7	900*159	2.5"	75W	1	75W	60-70
FE-A-UV-8	900*159	2.5"	75W	2	150W	70-80
FE-A-UV-9	900*159	2.5"	75W	3	225W	80-90
FE-A-UV-10	900*159	2.5"	75W	4	300W	90-100
FE-A-UV-12	900*159	2.5"	75W	5	375W	100-120
FE-A-UV-14	900*219	3.0"	75W	3	225W	120-140
FE-A-UV-16	900*219	3.0"	75W	4	300W	140-160
FE-A-UV-18	900*219	3.0"	75W	5	375W	160-180
FE-A-UV-20	900*219	3.0"	75W	6	450W	180-200
FE-A-UV-25	900*219	3.0"	75W	7	525W	200-250
FE-A-UV-30	900*219	3.0"	75W	8	600W	250-300
FE-A-UV-35	900*273	4.0"	75W	4	300W	300-350
FE-A-UV-40	900*273	4.0"	75W	5	375W	350-400
FE-A-UV-45	900*273	4.0"	75W	6	450W	400-450
FE-A-UV-50	900*273	4.0"	75W	7	525W	450-500
FE-A-UV-55	900*273	4.0"	75W	8	600W	500-550
FE-A-UV-60	900*273	5.0"	75W	9	675W	550-600
FE-A-UV-65	900*273	5.0"	75W	10	750W	600-650
FE-A-UV-70	900*273	5.0"	75W	11	825W	650-700
FE-A-UV-75	900*273	6.0"	75W	12	900W	700-750
FE-A-UV-80	900*273	6.0"	75W	13	975W	750-800
FE-A-UV-85	900*273	6.0"	75W	14	1050W	800-850

HC
MIXED BED ION EXCHANGER


MODEL	Diameter A (mm)	Vessel Height B (mm)	Total Height C (mm)	Inlet/Outlet	Reference Flows (T/H)	Cation Resin	Anion Resin
FEHC-300	300	2200	2810	DN32	1.4-2.1	30	55
FEHC-400	400	2200	2860	DN40	2.5-3.8	50	100
FEHC-500	500	2200	2910	DN40	4.0-6.0	85	150
FEHC-600	600	2200	3120	DN50	5.7-8.5	120	220
FEHC-700	700	2200	3170	DN50	7.7-8.5	160	300
FEHC-800	800	2200	3220	DN65	10-15	210	390
FEHC-900	900	2200	3270	DN65	13-19	270	500
FEHC-1000	1000	2200	3370	DN65	15-20	330	610
FEHC-1200	1200	2200	3470	DN80	22-30	480	880
FEHC-1400	1400	2200	3450	DN80	30-45	650	1200
FEHC-1500	1500	2200	3500	DN100	35-50	750	1380
FEHC-1600	1600	2200	3525	DN100	40-60	850	1570
FEHC-1800	1800	2200	3600	DN100	50-75	1080	1980
FEHC-2000	2000	2200	3750	DN125	60-95	1330	2450
FEHC-2200	2200	2200	3900	DN125	75-115	1620	2970
FEHC-2400	2400	2200	4050	DN125	90-135	1920	3530
FEHC-2500	2500	2200	4100	DN150	100-145	2090	3830
FEHC-2600	2600	2200	4150	DN150	105-160	2260	4140
FEHC-2800	2800	2200	4250	DN150	120-185	2620	4800
FEHC-3000	3000	2200	4350	DN200	140-210	3000	5510
FEHC-3200	3200	2200	4450	DN200	160-240	3420	6270

SF
WATER SOFTENER VESSEL


MODEL	Diameter A (mm)	Vessel Height B (mm)	Total Height C (mm)	Thickness	Reference Flows (T/H)
FESF-200	200	1220	1300	1.5	0.5
FESF-250	250	1220	1350	2	1
FESF-300	300	1220	1400	2	1.5
FESF-350	350	1220	1500	2	2
FESF-400	400	1220	1550	2	2.5
FESF-450	450	1220	1580	3	3
FESF-500	500	1220	1620	3	4
FESF-550	550	1220	1650	3	5
FESF-600	600	1220	1680	3	6
FESF-650	650	1220	1845	3	7
FESF-700	700	1220	1870	3	7.5
FESF-750	750	1220	1900	3	8
FESF-800	800	1220	1920	3	10

MH
RO MEMBRANE HOUSING

TECHNICAL PARAMETERS:

Structure: Standard accessories, Easy to install
Cover Type: TC-Clamp Membrane Housing, Inside Cap Membrane Housing, Frange Membrane Housing
Working Pressure: 2.0-2.5MPa
Inlet Type: End-in Type, Side-in Type
Finish: Mirror Finish

4040 MEMBRANE HOUSING

Two Types	Seamed and Seamless
Housing Material	SUS 304, SUS 316
Cap	ABS Cover, O-Ring Seal Up

8040 MEMBRANE HOUSING

SUS304 Seamless Stainless Steel	
High Polished Exterior Side Entry	
Inlet Type	End Port, Side Port
Working Pressure	4.0MPa
Membrane Size	2.5", 4", 8"
Inlet/Outlet Diameter	3/4" or 1/2"

END-IN TYPE AND SIDE-IN TYPE STAINLESS STEEL RO MEMBRANE HOUSING

Housing Material	SUS304, SUS316L
Max. Working Pressure	350 Psi
Finish	Polished, Brushed

FH

BAG FILTER HOUSING

SINGLE BAG FILTER MODELS



MODEL	Bag Specification	Size (Dia*Height) A*B	Inlet/Outlet mm/inches	Filtering Area (M ³)	Flows (T/H)/gpm
FE167-4	4#	167*745 7"*30"	DN25/1"	0.13	10/44 gpm
FE167-3	3#	167*1145 7"*45"	DN32/1.25"	0.26	20/88 gpm
FE219-1	1#	219*745 8.6"*30"	DN40/1.5"	0.23	15/132 gpm
FE219-2	2#	219*114 8.6"*45"	DN50/2"	0.46	30/76 gpm

MULTI-BAG FILTER MODELS



MODEL	Size (Dia*Height) A*B	Inlet/Outlet	Filtering Area (m ³)	Flows (T/h)	Bag Specification
FE400-2-Y	Ø400*1350 16"*54"	DN80/3"	0.92	60/264 gpm	2 @ 25mm
FE500-3-Y	Ø500*1550 20"*61"	DN100/4"	1.38	90/396 gpm	3 @ 25mm
FE550-4-Y	Ø550*1575 22"*62"	DN100/4"	1.84	120/528 gpm	4 @ 25mm
FE600-4-Y	Ø600*1600 24"*63"	DN125/5"	1.84	120/528 gpm	4 @ 25mm
FE600-5-Y	Ø600*1950 24"*78"	DN150/6"	2.30	150/660 gpm	5 @ 25mm
FE650-5-Y	Ø650*1650 26"*65"	DN150/6"	2.30	150/660 gpm	5 @ 25mm
FE650-6-Y	Ø650*2000 26"*79"	DN150/6"	2.76	180/792 gpm	6 @ 25mm
FE750-7-Y	Ø750*1725 30"*68"	DN150/6"	3.22	210/924 gpm	7 @ 25mm
FE750-8-Y	Ø750*2075 30"*82"	DN200/8"	3.68	240/1056 gpm	8 @ 25mm
FE800-9-Y	Ø800*2100 32"*83"	DN200/8"	4.14	270/1188 gpm	9 @ 25mm
FE850-9-Y	Ø850*2125 34"*84"	DN200/8"	4.14	270/1188 gpm	9 @ 25mm
FE900-10-Y	Ø900*2150 36"*86"	DN200/8"	4.60	300/1320 gpm	10 @ 25mm
FE950-12-Y	Ø950*2200 38"*88"	DN250/10"	5.52	360/1584 gpm	12 @ 25mm
FE1000-12-Y	Ø1000*2230 40"*89"	DN250/10"	5.52	360/1554 gpm	12 @ 25mm

TECHNICAL PARAMETERS:

Housing Material:

SUS304, SUS316L

Design Pressure:

0.6-1.0MPa

Filtering Precision:

1-800µm

Surface Treatment:

Mirror Finish,
Matte Finish

Designed Flow:

1-360m³/hr

WWTP
**CUSTOM-BUILT PACKAGED
WASTE WATER TREATMENT PLANT**

WASTE WATER TREATMENT FACILITY
**WINNIPEG,
MANITOBA, CANADA**


Primary Filtration by Strainer and Separator



Initial Disinfection by Copper/Silver Ionization



Final Filtration by Cartridge Filter @ 1 Micron



Final Disinfection by Ozonation


WASTE WATER TREATMENT FACILITY
**BELLEVILLE,
ONTARIO, CANADA**


Equalizing Tank



WWTP Building



Fine Polymer Membrane Tank



Aeration Tank



Air Blowers



Bio-Filter & Chemical Injection



100 KVA Natural Gas Generator



Pump & Disinfection Room



5-Acre WWTP Facility

WWTP

**CUSTOM-BUILT PACKAGED
WASTE WATER TREATMENT PLANT**



CARROT WASH WATER TREATMENT FACILITY

**KESWICK,
ONTARIO, CANADA**

Conversion & Treatment of Surface Water to Process Water at Zero Environment Discharge



Solids Settling and Aeration



Final Stage of Water Treatment



Aeration Pond



Dissolved Air Flotation



Bacteria Control System



RO System



Solids Dewatering and
Conditioning Building



Tile Water Tank



Ponds & Tile Water Bacteria and
Algae Control



Dewatering Solids Separation



Cyclonic Tank & DAF



Ozone & UV Light Disinfection



Before and after appearance of water

WWTP

**CUSTOM-BUILT PACKAGED
WASTE WATER TREATMENT PLANT**



BUS WASH WATER TREATMENT FACILITY

MILTON,
ONTARIO, CANADA

Reduction of TSS, Oil & Grease, control of pH at 7.0 - 8.0



PLC Controlled System



Ozone Injection & DAF



Electrical Distribution System



Media & Cartridge Filtration



Flocculant & Coagulant Dosage System



Equalization to Final Water Treatment



CARLTON TOWER WATER CONDITIONING SYSTEM

PASSAIC,
NEW JERSEY, USA



WWTP

**CUSTOM-BUILT PACKAGED
WASTE WATER TREATMENT PLANT**

CHESAPEAKE ENERGY



Cooling Tower Filtration,
Disinfection and Conservation

COOLING TOWER



Cooling Tower Filtration Disinfection System
on High Rise Building

**OUR LADY OF
ASSUMPTION CHURCH**



Boiler Descaling



Boiler Filtration and Descaling
Before and After Filter Bags

LEBEL POND



Pond Algae Control and Filtration

**COLDWATER
NURSING HOME**



Water Filtration and Conditioning

CARLTON TOWER



Water Conditioning and Purification Systems on High Rise Building



WWTP

**CUSTOM-BUILT PACKAGED
WASTE WATER TREATMENT PLANT**



WASTE WATER TREATMENT FACILITY

MISSISSAUGA,
ONTARIO, CANADA



Removal of bacteria and reduction of TSS, Oil & Grease in Wastewater

SCADDING PROJECT

SUDBURY,
ONTARIO, CANADA

This Project recovers precious metals from mine tailing operations and cleaning tailing water, removing toxic elements.



Electrowinning



Shaking Tables



Alumina Flotation Machine



Ball Mill with Magnetic Separator



Dual Hydro Cyclones



Gold Concentrator

WWTP

**CUSTOM-BUILT PACKAGED
WASTE WATER TREATMENT PLANT**

RESIDENTIAL/OTHER INSTALLATIONS



Whole House System

Deepwell Water System
(Filtration, Disinfection, Conditioning)



Cottage

Lake Water System
(Filtration, Disinfection, Conditioning)



Water Heater Tank
(Descaling/Conditioning)



**WHR & IONIZER
FOR
SWIMMING POOLS**

WHE Ionizer and Ozonators
for Swimming Pools 2011



Dual 316SS Media Filtration Tanks
at Table Mountain Casino,
Fresno, CA 1998



Tankless Water Heater
(Descaling/Conditioning)



Sand Media Filtration on Cooling Tower
Application at St. Francis Hospital
Phoenix, Arizona 1999



Hot and Cold Water Dispenser

PSWT

PORTABLE SOLAR-POWERED WATER TREATMENT



The Solar UV-300 Tough-Tote System is perfect for use in places where electrical power is unavailable. This portable solar powered UV water disinfection system includes everything you need to produce clean and safe drinking water from most surface water sources such as lakes and streams, at up to 2.5 gpm (gallons per minute) / 10 lpm (litres per minute).

All system components are stowed inside the tough-tote box so it's easy to position it anywhere, connect the inlet and outlet hoses, then set up the solar panels to point at the sun and you are ready to produce high quality safe drinking water.

The system is extremely useful for off-grid and for emergency situations.

The solar panels charge the onboard 12-volt battery, used to power the UV disinfection light and ozone system.

Pre-filters are included to remove sediments and freshen the water prior to disinfection with UV light/ ozone.

The system is very simple to operate and maintain. Filter changes are quick and easy and the UV lamp is good for a whole year of use.

During extended cloudy periods the on-board battery can be charged by using any 12-volt source including a vehicle battery. There is a convenient plug-in for connecting to the external source, and the plug-in may also be used to run an external 12-volt LED light or other optional ancillary appliances.

This rugged system is able to provide all the safe and clean drinking water you need, and can be used anywhere. All components are included making the Solar UV- 300 Tough-Tote System the ideal solution for off-grid production of safe sterilized drinking water.

Safe Drinking Water Fully Self Powered

- Off-Grid Solar Powered Water Treatment
- Dual Filtration and UV Disinfection
- 2 x 150 Watt Solar Panels
- Portable and Simple to Use Anywhere
- Kills Bacterial & Viral Pathogens in Water
- Removes Sediments, Tastes and Odors
- Perfect for Emergency or Daily Use

Technical Specifications

- 12 V DC Solar Powered System
- Up to 2.5 GPM Flow Rate
- 100 Ah Battery included
- 3/4" Inlet/Outlet Hose included
- Heavy Duty Lockable Tote

Very High UV Dose to Provide Complete Disinfection:

- UV Dose: +50 mJ/cm² @ 95% UVT
- Solar Panels: 2 x 150 Watt
- Controller: 20 Amp MPPT for High Efficiency Charging
- Shipping Size & Weight: 47"x24"x28", 185 lbs.

*Specifications are subject to change

SPS

SOLAR POWER SYSTEMS



PACKAGE

20' container-----500 sets
 40' container-----800sets

DEVICE LIST

- 1) 1 pcs Solar Modules 100w/pc
- 2) 1 set Solar Charger Controller
- 3) 1 set Sine Wave Inverter 150W
- 4) 1 pcs Deep Cycle Maintenance-free Battery 12V 100AH
- 5) Bracket for the solar panel module
- 6) Junction box
- 7) One year free technical support

150W SOLAR POWER SYSTEM

SYSTEM SPECIFICATIONS

ITEM NO.		SBP-SPS-0.15K
OUTPUT VOLTAGE		110VAC / 220VAC, 12VDC / 24VDC
MAX AC LOAD		100 W
OUTPUT POWER EVERYDAY (SUNNY DAY)		600 WH
SOLAR PANEL	MATERIAL	Mono/Poly Crystal Grade A Solar Cell
	P _{MAX}	100 Watt
INVERTER	OUTPUT WAVE	Sine Wave
	OUTPUT VOLTAGE	AC110V / AC220V
	OUTPUT FREQUENCY	50 / 60 Hz
	OUTPUT VOLTAGE STABILIZATION PRECISION	± 3%
	PRECISION OUTPUT FREQUENCY	± 0.1%
	OVERLOAD ABILITY	120%, 30 Seconds
	INVERT EFFICIENCY	> 85%
BATTERY	TYPE	Deep Cycle Maintenance-free Battery
	CAPACITY	100 AH / 12V

SPS

SOLAR POWER SYSTEMS



PACKAGE

20' container-----140 sets
 40' container-----200sets

DEVICE LIST

- 1) 2 pcs Solar Modules 150w/pc
- 2) 1 set Solar Charger Controller
- 3) 1 set Sine Wave Inverter 500W
- 4) 2 pcs Deep Cycle Maintenance-free Battery 12V 100AH
- 5) Bracket for the solar panel module
- 6) Junction box
- 7) One year free technical support

500W SOLAR POWER SYSTEM

SYSTEM SPECIFICATIONS

ITEM NO.		SBP-SPS-0.5K
OUTPUT VOLTAGE		110VAC / 220VAC, 12VDC / 24VDC
MAX AC LOAD		500 W
OUTPUT POWER EVERYDAY (SUNNY DAY)		1800 WH
SOLAR PANEL	MATERIAL	Mono/Poly Crystal Grade A Solar Cell
	P _{MAX}	300 Watt
INVERTER	OUTPUT WAVE	Sine Wave
	OUTPUT VOLTAGE	AC110V / AC220V
	OUTPUT FREQUENCY	50 Hz
	OUTPUT VOLTAGE STABILIZATION PRECISION	± 3%
	PRECISION OUTPUT FREQUENCY	± 0.1%
	OVERLOAD ABILITY	120%, 30 Seconds
	INVERT EFFICIENCY	> 85%
BATTERY	TYPE	Deep Cycle Maintenance-free Battery
	CAPACITY	100 AH / 24V

SPS

SOLAR POWER SYSTEMS



PACKAGE

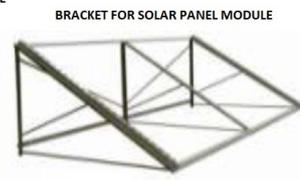
20' container-----140 sets
 40' container-----200sets

DEVICE LIST

- 1) 2 pcs Solar Modules 150w/pc
- 2) 1 set Solar Charger Controller
- 3) 1 set Sine Wave Inverter 500W
- 4) 2 pcs Deep Cycle Maintenance-free Battery 12V 100AH
- 5) Bracket for the solar panel module
- 6) Junction box
- 7) One year free technical support

500W SOLAR POWER SYSTEM

ELECTRICAL APPLIANCE	POWER CONSUMPTION	QUANTITY	WORKING TIME / DAY	POWER CONSUMPTION / DAY
LED Light	5W	5	8	200 WH
Colot TV 21"	70W	1	6	420 WH
Fan	40W	1	8	320 WH
Total	150W			940 WH



SPS

SOLAR POWER SYSTEMS



PACKAGE

20' container-----60 sets
 40' container-----110sets

DEVICE LIST

- 1) 4 pcs Solar Modules 125w/pc
- 2) 1 set Solar Charger Controller
- 3) 1 set Sine Wave Inverter 1000W
- 4) 2 pcs Deep Cycle Maintenance-free Battery 24V 100AH (12V/100AH x 2 pcs)
- 5) Bracket for the solar panel module
- 6) Junction box
- 7) Voltage Transfer Module + 2 pcs Super Brightness LED Bulb
- 8) One year free technical support

1000W SOLAR POWER SYSTEM

SYSTEM SPECIFICATIONS

ITEM NO.		SBP-SPS-1K
OUTPUT VOLTAGE		110VAC / 220VAC, 12VDC / 24VDC
MAX AC LOAD		1000 W
OUTPUT POWER EVERYDAY (SUNNY DAY)		3000 WH
SOLAR PANEL	MATERIAL	Mono/Poly Crystal Grade A Solar Cell
	P _{MAX}	500 Watt
INVERTER	OUTPUT WAVE	Sine Wave
	OUTPUT VOLTAGE	AC110V / AC220V
	OUTPUT FREQUENCY	50 / 60 Hz
	OUTPUT VOLTAGE STABILIZATION PRECISION	± 3%
	PRECISION OUTPUT FREQUENCY	± 0.1%
	OVERLOAD ABILITY	120%, 30 Seconds
	INVERT EFFICIENCY	> 85%
BATTERY	TYPE	Deep Cycle Maintenance-free Battery
	CAPACITY	100 AH / 24V

SPS

SOLAR POWER SYSTEMS



PACKAGE

20' container-----60 sets
 40' container-----110sets

DEVICE LIST

- 1) 4 pcs Solar Modules 125w/pc
- 2) 1 set Solar Charger Controller
- 3) 1 set Sine Wave Inverter 1000W
- 4) 2 pcs Deep Cycle Maintenance-free Battery 24V 100AH (12V/100AH x 2 pcs)
- 5) Bracket for the solar panel module
- 6) Junction box
- 7) Voltage Transfer Module + 2 pcs Super Brightness LED Bulb
- 8) One year free technical support

1000W SOLAR POWER SYSTEM

ELECTRICAL APPLIANCE	POWER CONSUMPTION	QUANTITY	WORKING TIME / DAY	POWER CONSUMPTION / DAY
LED Light	10W	5	8	400 WH
Computer	100W	1	5	500 WH
Fridge (150L)	100W	1	24	800 WH
Color TV 21"	70W	1	6	420 WH
Fan	40W	1	6	240 WH
Total	660W			2360 WH



SOLAR MODULES



SOLAR CHARGER CONTROLLER



SINE WAVE INVERTER



DEEP CYCLE MAINTENANCE-FREE BATTERY



BRACKET FOR SOLAR PANEL MODULE

SPS

SOLAR POWER SYSTEMS



PACKAGE

20' container-----50 sets
 40' container-----100sets

DEVICE LIST

- 1) 4 pcs Solar Modules 150w/pc
- 2) 1 set Solar Charger Controller
- 3) 1 set Sine Wave Inverter 2000W
- 4) 2 pcs Deep Cycle Maintenance-free Battery 24V 200AH (12V/100AH x 4 pcs)
- 5) Bracket for the solar panel module
- 6) Junction box
- 7) Voltage Transfer Module + 2 pcs Super Brightness LED Bulb
- 8) One year free technical support

2000W SOLAR POWER SYSTEM

SYSTEM SPECIFICATIONS

ITEM NO.		SBP-SPS-2K
OUTPUT VOLTAGE		110VAC / 220VAC, 12VDC / 24VDC
MAX AC LOAD		2000 W
OUTPUT POWER EVERYDAY (SUNNY DAY)		3600 WH
SOLAR PANEL	MATERIAL	Mono/Poly Crystal Grade A Solar Cell
	P _{MAX}	600 Watt
INVERTER	OUTPUT WAVE	Sine Wave
	OUTPUT VOLTAGE	AC110V / AC220V
	OUTPUT FREQUENCY	50 / 60 Hz
	OUTPUT VOLTAGE STABILIZATION PRECISION	± 3%
	PRECISION OUTPUT FREQUENCY	± 0.1%
	OVERLOAD ABILITY	120%, 30 Seconds
	INVERT EFFICIENCY	> 85%
BATTERY	TYPE	Deep Cycle Maintenance-free Battery
	CAPACITY	200 AH / 24V

SPS

SOLAR POWER SYSTEMS



PACKAGE

20' container-----50 sets
 40' container-----100sets

DEVICE LIST

- 1) 4 pcs Solar Modules 150w/pc
- 2) 1 set Solar Charger Controller
- 3) 1 set Sine Wave Inverter 2000W
- 4) 2 pcs Deep Cycle Maintenance-free Battery 24V 200AH (12V/100AH x 4 pcs)
- 5) Bracket for the solar panel module
- 6) Junction box
- 7) Voltage Transfer Module + 2 pcs Super Brightness LED Bulb
- 8) One year free technical support

2000W SOLAR POWER SYSTEM

ELECTRICAL APPLIANCE	POWER CONSUMPTION	QUANTITY	WORKING TIME / DAY	POWER CONSUMPTION / DAY
LED Light	10W	5	8	400 WH
Computer	100W	1	5	500 WH
Fridge (150L)	100W	1	24	800 WH
Color TV 21"	70W	1	6	420 WH
Fan	40W	1	6	240 WH
Washer	300W	1	1	300 WH
Water Pump	200W	1	0.5	100 WH
Total	800W			2760 WH



DEEP CYCLE MAINTENANCE-FREE BATTERY



BRACKET FOR SOLAR PANEL MODULE



SPS

SOLAR POWER SYSTEMS



PACKAGE

20' container-----40 sets
 40' container-----90sets

DEVICE LIST

- 1) 4 pcs Solar Modules 200w/pc or 3 pcs 275w Solar Panels
- 2) 1 set Solar Charger Controller
- 3) 1 set Sine Wave Inverter 3000W or 2 sets Sine Wave Inverter 1500W
- 4) 2 pcs Deep Cycle Maintenance-free Battery 24V 200AH (12V/100AH x 4 pcs)
Option Lithium-Ion available
- 5) Bracket for the solar panel module
- 6) Junction box
- 7) Voltage Transfer Module + 2 pcs Super Brightness LED Bulb
- 8) One year free technical support

3000W SOLAR POWER SYSTEM

SYSTEM SPECIFICATIONS

ITEM NO.		SBP-SPS-3K
OUTPUT VOLTAGE		110VAC / 220VAC, 12VDC / 24VDC
MAX AC LOAD		3000 W
OUTPUT POWER EVERYDAY (SUNNY DAY)		4500 WH
SOLAR PANEL	MATERIAL	Mono/Poly Crystal Grade A Solar Cell
	P _{MAX}	750 Watt
INVERTER	OUTPUT WAVE	Sine Wave
	OUTPUT VOLTAGE	AC110V / AC220V
	OUTPUT FREQUENCY	50 / 60 Hz
	OUTPUT VOLTAGE STABILIZATION PRECISION	± 3%
	PRECISION OUTPUT FREQUENCY	± 0.1%
	OVERLOAD ABILITY	120%, 30 Seconds
	INVERT EFFICIENCY	> 85%
BATTERY	TYPE	Deep Cycle Maintenance-free Battery
	CAPACITY	200 AH / 24V

SPS

SOLAR POWER SYSTEMS



PACKAGE

20' container-----40 sets
 40' container-----90sets

DEVICE LIST

- 1) 4 pcs Solar Modules 200w/pc or 3 pcs 275w Solar Panels
- 2) 1 set Solar Charger Controller
- 3) 1 set Sine Wave Inverter 3000W or 2 sets Sine Wave Inverter 1500W
- 4) 2 pcs Deep Cycle Maintenance-free Battery 24V 200AH (12V/100AH x 4 pcs)
Option Lithium-Ion available
- 5) Bracket for the solar panel module
- 6) Junction box
- 7) Voltage Transfer Module + 2 pcs Super Brightness LED Bulb
- 8) One year free technical support

3000W SOLAR POWER SYSTEM

ELECTRICAL APPLIANCE	POWER CONSUMPTION	QUANTITY	WORKING TIME / DAY	POWER CONSUMPTION / DAY
LED Light	10W	5	8	400 WH
Computer	100W	1	5	500 WH
Fridge (150L)	100W	1	24	800 WH
Color TV 21"	70W	1	6	420 WH
Fan	40W	1	6	240 WH
Washer	300W	1	1	300 WH
Water Pump	200W	1	0.5	100 WH
Total	800W			2760 WH



SOLAR MODULES



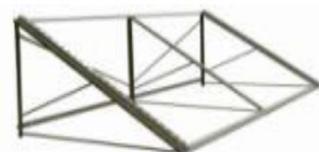
SOLAR CHARGER CONTROLLER



SINE WAVE INVERTER



DEEP CYCLE MAINTENANCE-FREE BATTERY



BRACKET FOR SOLAR PANEL MODULE

SPS

SOLAR POWER SYSTEMS



PACKAGE

20' container-----30 sets
 40' container-----70sets

DEVICE LIST

- 1) 8 pcs Solar Modules 150w/pc or 5 pcs 250w Solar Panels
- 2) 1 set Solar Charger Controller
- 3) 1 set Sine Wave Inverter 4000W or 2 sets Sine Wave Inverter 2000W
- 4) Deep Cycle Maintenance-free Battery 24V 300AH (12V/100AH x 6 pcs)
- 5) Bracket for the solar panel module
- 6) Junction box
- 7) Voltage Transfer Module + 2 pcs Super Brightness LED Bulb
- 8) One year free technical support

4000W SOLAR POWER SYSTEM

SYSTEM SPECIFICATIONS

ITEM NO.		SBP-SPS-4K
OUTPUT VOLTAGE		110VAC / 220VAC, 12VDC / 24VDC
MAX AC LOAD		4000 W
OUTPUT POWER EVERYDAY (SUNNY DAY)		7200 WH
SOLAR PANEL	MATERIAL	Mono/Poly Crystal Grade A Solar Cell
	PMAX	1200 Watt
INVERTER	OUTPUT WAVE	Sine Wave
	OUTPUT VOLTAGE	AC110V / AC220V
	OUTPUT FREQUENCY	50 / 60 Hz
	OUTPUT VOLTAGE STABILIZATION PRECISION	± 3%
	PRECISION OUTPUT FREQUENCY	± 0.1%
	OVERLOAD ABILITY	120%, 30 Seconds
	INVERT EFFICIENCY	> 85%
BATTERY	TYPE	Deep Cycle Maintenance-free Battery
	CAPACITY	300 AH / 24V

SPS

SOLAR POWER SYSTEMS



PACKAGE

20' container-----30 sets
 40' container-----70sets

DEVICE LIST

- 1) 8 pcs Solar Modules 150w/pc or 5 pcs 250w Solar Panels
- 2) 1 set Solar Charger Controller
- 3) 1 set Sine Wave Inverter 4000W or 2 sets Sine Wave Inverter 2000W
- 4) Deep Cycle Maintenance-free Battery 24V 300AH (12V/100AH x 6 pcs)
- 5) Bracket for the solar panel module
- 6) Junction box
- 7) Voltage Transfer Module + 2 pcs Super Brightness LED Bulb
- 8) One year free technical support

4000W SOLAR POWER SYSTEM

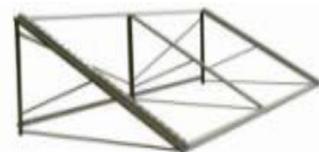
ELECTRICAL APPLIANCE	POWER CONSUMPTION	QUANTITY	WORKING TIME / DAY	POWER CONSUMPTION / DAY
LED Light	10W	5	8	400 WH
Computer	100W	1	10	1000 WH
Fridge (150L)	100W	1	24	800 WH
Color TV 21"	70W	1	10	700 WH
Fan	40W	1	10	400 WH
Washer	300W	1	1	300 WH
Water Pump	200W	1	0.5	100 WH
Total	800W			3700 WH



DEEP CYCLE MAINTENANCE-FREE BATTERY



BRACKET FOR SOLAR PANEL MODULE



SPS

SOLAR POWER SYSTEMS



PACKAGE

20' container-----25 sets
 40' container-----50sets

DEVICE LIST

- 1) 10 pcs Solar Modules 200w/pc or 8 pcs 250w Solar Panels
- 2) 1 set Solar Charger Controller
- 3) 1 set Sine Wave Inverter 5000W or 2 sets Sine Wave Inverter 2500W
- 4) Deep Cycle Maintenance-free Battery 24V 400AH (12V/100AH x 8 pcs)
- 5) Bracket for the solar panel module
- 6) Junction box
- 7) Voltage Transfer Module + 2 pcs Super Brightness LED Bulb
- 8) One year free technical support

5000W SOLAR POWER SYSTEM

SYSTEM SPECIFICATIONS

ITEM NO.		SBP-SPS-5K
OUTPUT VOLTAGE		110VAC / 220VAC, 12VDC / 24VDC
MAX AC LOAD		5000 W
OUTPUT POWER EVERYDAY (SUNNY DAY)		9000 WH
SOLAR PANEL	MATERIAL	Mono/Poly Crystal Grade A Solar Cell
	P _{MAX}	1500 Watt
INVERTER	OUTPUT WAVE	Sine Wave
	OUTPUT VOLTAGE	AC110V / AC220V
	OUTPUT FREQUENCY	50 / 60 Hz
	OUTPUT VOLTAGE STABILIZATION PRECISION	± 3%
	PRECISION OUTPUT FREQUENCY	± 0.1%
	OVERLOAD ABILITY	120%, 30 Seconds
	INVERT EFFICIENCY	> 85%
BATTERY	TYPE	Deep Cycle Maintenance-free Battery
	CAPACITY	400 AH / 24V

SPS

SOLAR POWER SYSTEMS



PACKAGE

20' container-----25 sets
 40' container-----50sets

DEVICE LIST

- 1) 10 pcs Solar Modules 200w/pc or 8 pcs 250w Solar Panels
- 2) 1 set Solar Charger Controller
- 3) 1 set Sine Wave Inverter 5000W or 2 sets Sine Wave Inverter 2500W
- 4) Deep Cycle Maintenance-free Battery 24V 400AH (12V/100AH x 8 pcs)
- 5) Bracket for the solar panel module
- 6) Junction box
- 7) Voltage Transfer Module + 2 pcs Super Brightness LED Bulb
- 8) One year free technical support

5000W SOLAR POWER SYSTEM

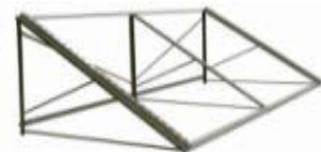
ELECTRICAL APPLIANCE	POWER CONSUMPTION	QUANTITY	WORKING TIME / DAY	POWER CONSUMPTION / DAY
LED Light	10W	5	8	400 WH
Computer	100W	1	5	500 WH
Fridge (150L)	100W	1	24	800 WH
Color TV 21"	70W	1	6	420 WH
Fan	40W	1	6	240 WH
Washer	300W	1	1	300 WH
Microwave Oven	1000W	1	0.5	500 WH
Water Pump	200W	1	0.5	100 WH
Total	1860W			3260 WH



DEEP CYCLE MAINTENANCE-FREE BATTERY



BRACKET FOR SOLAR PANEL MODULE



HPS

HYBRID POWER SYSTEM SOLAR + WIND



Solar & wind hybrid systems product mainly use for home ,street lights system, small building and offices, groceries, place of worships, clinics, gas stations, laboratories, remote areas where power supply is not available, both of them are Economical, Green and Environmentally Friendly .

At night or rainy day, wind turbine generate wind power. In sunny day, solar panel generate solar power. In windy and sunny day, both of them generate power. This hybrid system could be stand alone and/or off grid.

General Specifications:

Wind Turbine : 3pcs or 5pcs blades optional; guy cable tower or free stand tower optional;

Solar Panel : mono or poly panel optional; battery capacity and quantity can optional;

On-Grid Hybrid System:
solar + wind + on grid hybrid Controller + grid tie inverter

Off-Grid Hybrid System:
solar + wind + hybrid controller + off grid inverter + battery

<p>*Pictures for reference only.</p>	<p>SYSTEM BASIC INFORMATION</p>	<p>Solar panel power:15KW+ Wind turbine power:5KW Suitable for daily power consumption:80-85KWH Allowable Max Loads power:24kw</p>
	<p>SOLAR PANELS</p>	<p>Type: Mono solar panel (poly optional) Max power: 300w Vmp: 44.5V Imp: 8.6A Size: 1640*992*35mm 25 years life time (CE TUV) Glass: 3.2mm Tempered Terminal block: IP65 with MC4 connector Connect way: 10 pcs panels in series as a string, 5strings in parallel</p>
	<p>WIND TURBINE</p>	<p>Power: 5KW/240V Advantage: light weight, small volume Starting wind speed: 3m/s Rated wind speed: 13m/s Security wind speed: 60m/s Rated speed: 185r/m 3years warranty, 20 year use life</p>

HPS

HYBRID POWER SYSTEM SOLAR + WIND

<p>*Pictures for reference only.</p>	<p>SYSTEM BASIC INFORMATION</p>	<p>Solar panel power:15KW+ Wind turbine power:5KW Suitable for daily power consumption:80-85KWH Allowable Max Loads power:24kw</p>
	<p>HYBRID CONTROLLER</p>	<p>Input 15KW solar power+5KW wind power DC 240V input; MPPT intelligent control</p> <p>Protection Function: Solar reverse charge protection, Solar reverse connection protection, Battery-over-charge-protection, Battery-reverse connection protection, Lightning protection, Wind turbine current limiting, Wind turbine automatic brake and manual brake.</p>
	<p>PURE SINE WAVE INVERTER</p>	<p>Pure sine wave inverter; 20KW/240V Output 220v Use copper transformer; Bypass function with AC charger; Output: 220V or 380V Product Size: 590*470*730mm Weight: 145KG</p>
	<p>BATTERY</p>	<p>12V/200AH Solar power lead-acid battery, full sealed Deep cycle free maintenance type, special used for solar or wind power storage Service life: 5-6 years ,warranty :2 year Connect way: 20 pcs in series as a string,2strings in parallel</p>



Notes:

1. Pictures shown are for reference.
2. Power consumption data is based on areas with average wind speed of 4.5m/s and average daily peak power sunshine of 4hrs.
3. The battery capacity is designed for 2 days backup in non-sunshine and windless weather.
4. Solar panel racks and cables are not included.

Remark:

1. For wind and solar have 5 years warranty.
2. System other parts have 2 years warranty.
3. Ship the free parts for service.

EWT
**ENERGYBALL
WIND TURBINES**

ENERGYBALL V100

The Energy Ball offers the following benefits above a traditional propeller powered wind turbine:

- **No noise disturbance;** the sound of the wind turbines is caused by the airflow at the end of the propellers. Because of the spherical design of the Energy Ball it has no such ends, causing it to be silent.
- **Higher efficiency;** the aerodynamic design of the Energy Ball ensures a higher efficiency in the yield of energy.
- **Aesthetic design;** The shape and appearance in combination with its silent nature, make the Energy Ball excellently suited for placement in housing areas. The design also prevents the forming of drop shadow. Due to its appearance the Energy Ball is a favorite among architects and project developers.

PRODUCT DESCRIPTION

The Energy Ball V100 is a spherical small wind turbine with a **diameter of 1 meter**. The Energy Ball V100 has **6 rotor blades** and is in particular suitable for installation in urban area's. Since the Energy Ball V100 does not cause any nuisance due to noise or shadow, permits are generally granted faster than comparable small wind turbines. The Energy Ball V100 is installed on a **free standing pole** with a total height of **10 or 12 meter**, or on a **flat roof mast with a total height of 3 meters**.

At a wind speed of 17 m/s the Energy Ball V100 reaches its **maximum output**, the maximum output of the Energy Ball V100 is **550 Watt**. When the Energy Ball V100 is delivering its maximum output, the **power supplied to the grid by the WindPower Inverter is 500 W**. The Energy Ball V100 is capable of generating **500kWh per annum** at a site with an **average wind speed of 7 m/s**. It is however necessary to install the Energy Ball V100 in an open location on top of a **high pole (12 m)** to achieve this.

EWT
**ENERGYBALL
WIND TURBINES**

ENERGYBALL V200

The Energy Ball offers the following benefits above a traditional propeller powered wind turbine:

- **No noise disturbance;** the sound of the wind turbines is caused by the airflow at the end of the propellers. Because of the spherical design of the Energy Ball it has no such ends, causing it to be silent.
- **Higher efficiency;** the aerodynamic design of the Energy Ball ensures a higher efficiency in the yield of energy.
- **Aesthetic design;** The shape and appearance in combination with its silent nature, make the Energy Ball excellently suited for placement in housing areas. The design also prevents the forming of drop shadow. Due to its appearance the Energy Ball is a favorite among architects and project developers.

PRODUCT DESCRIPTION

The Energy Ball V200 has a **bigger diameter** than the Energy Ball V100 and delivers substantially **more power**. The V200 has **5 rotor blades**. With a **diameter of almost 2 meters** the Energy Ball V200 is suitable for installation in urban areas according to EU and North American legislation. Since the Energy Ball does not cause any nuisance due to noise or shadow, permits are generally granted faster than comparable small wind turbines. The Energy Ball V200 is installed on a **free standing pole** with a total height of **12 or 15 meters**.

At a wind speed of 19 m/s (wind force 8 to 9 Beaufort) the Energy Ball V200 reaches its **maximum output**, the maximum output of the Energy Ball V200 is **2500 W**. When the Energy Ball V200 is delivering its maximum output, the **power supplied to the grid by the WindPower Inverter is 2250 W**. The Energy Ball V200 is capable of generating **1750 kWh per annum** at a site with an **average wind speed of 7 m/s**. It is however necessary to install the Energy Ball V200 in an open location on top of a **high pole (15 m)** to achieve this.

CTE

CONTAINERIZED MBR INDUSTRIAL OR SEWAGE (WASTE WATER) TREATMENT EQUIPMENT



CONTAINERIZED MBR WWTP

PRODUCT DESCRIPTION

Fluid Exponents MBR Sewage Treatment Equipment offers Advance MBR Technology in waste water treatment field. We can provide customers with options ranging from filtration to a full scope of supply including prescreening and biological treatment through to the final membrane clarification step. Fluid Exponents MBR System provides technical support during installation and start-up.

MBR (Membrane Bioreactors) is a biological process that combines secondary and tertiary treatment using a membrane filtration process. Comparing with conventional wastewater treatment plants, MBR technology processing water have low turbidity, low bacterial counts, low TSS and NTU, and low consumption .

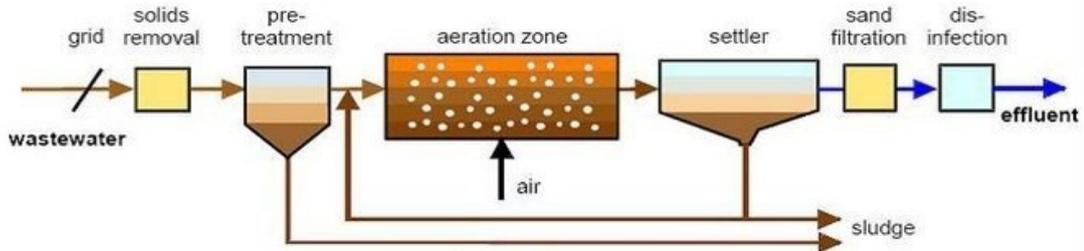


THE ADVANTAGES OF FLUID EXPONENTS CONTAINERIZED MBR TREATMENT EQUIPMENT

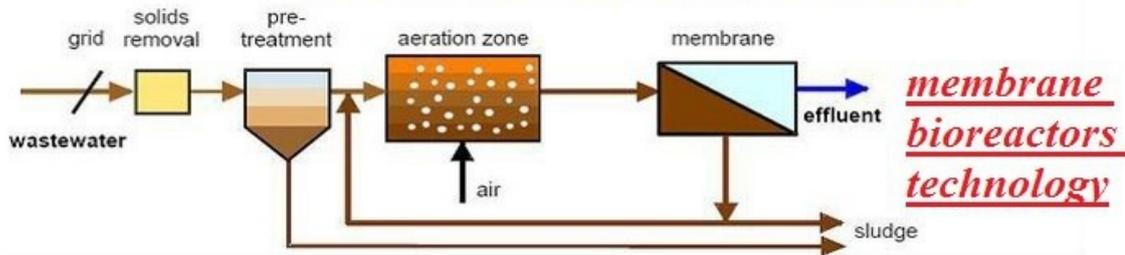
1. PVDF reinforced and braided hollow fiber membrane.
2. Capacities from 10 to 500 m³/day.
3. Standard pre-engineered design packages.
4. Efficient, compacted design, reduced footprint.
5. Backflush online and CIP flexible.
6. Lower cost and consumption.
7. Better control of biological activity.
8. Effluent that is free of bacteria and pathogens.
9. Smaller foot print.
10. Biodegradation efficiency enhanced 20%~40%.
11. Short Hydraulic Residence Time (HRT) & Long Sludge Residence Time (SRT).
12. Activated sludge increase by 2~3 times.
13. Higher organic loading rates.
14. Adopt high strength polypropylene material membrane, easy cleaning, long lifespan to 5-7 years.
15. Convenient management with automatic control system.
16. Meets or exceeds most regulatory requirements.

CTE

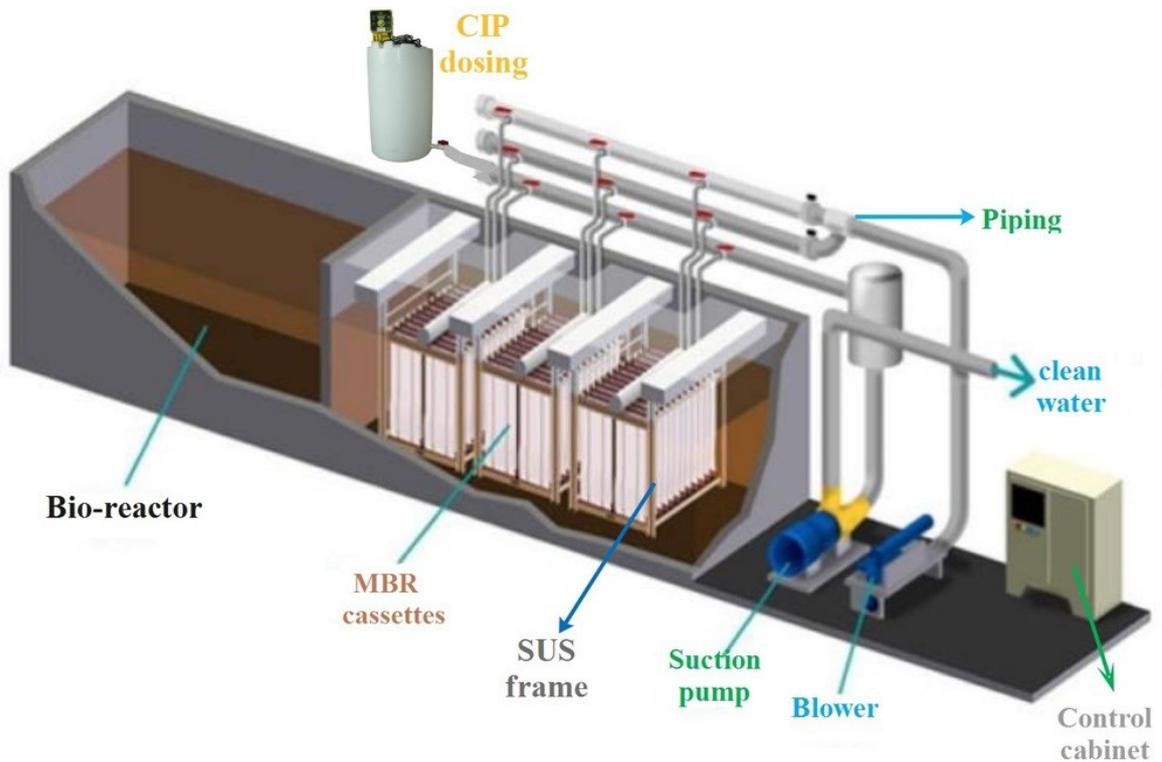
CONTAINERIZED MBR INDUSTRIAL OR SEWAGE (WASTE WATER) TREATMENT EQUIPMENT



conventional wastewater treatment

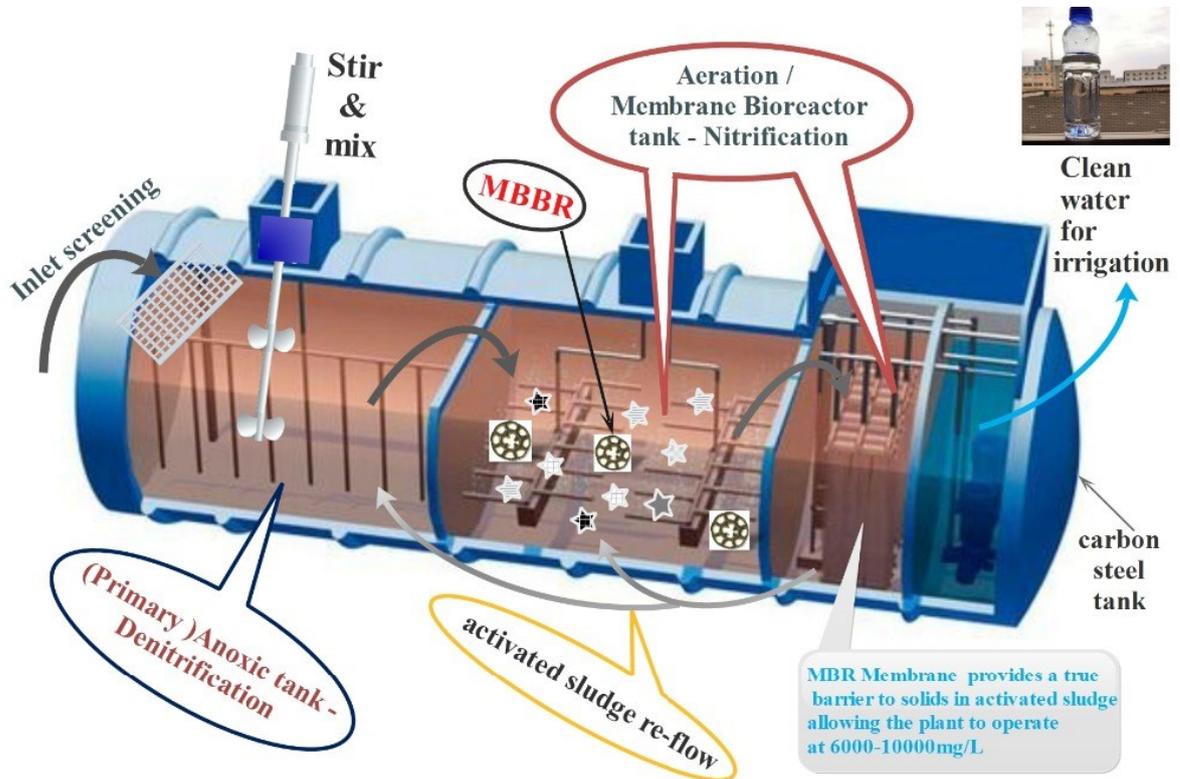


membrane bioreactors technology



CTE

CONTAINERIZED MBR INDUSTRIAL OR SEWAGE (WASTE WATER) TREATMENT EQUIPMENT

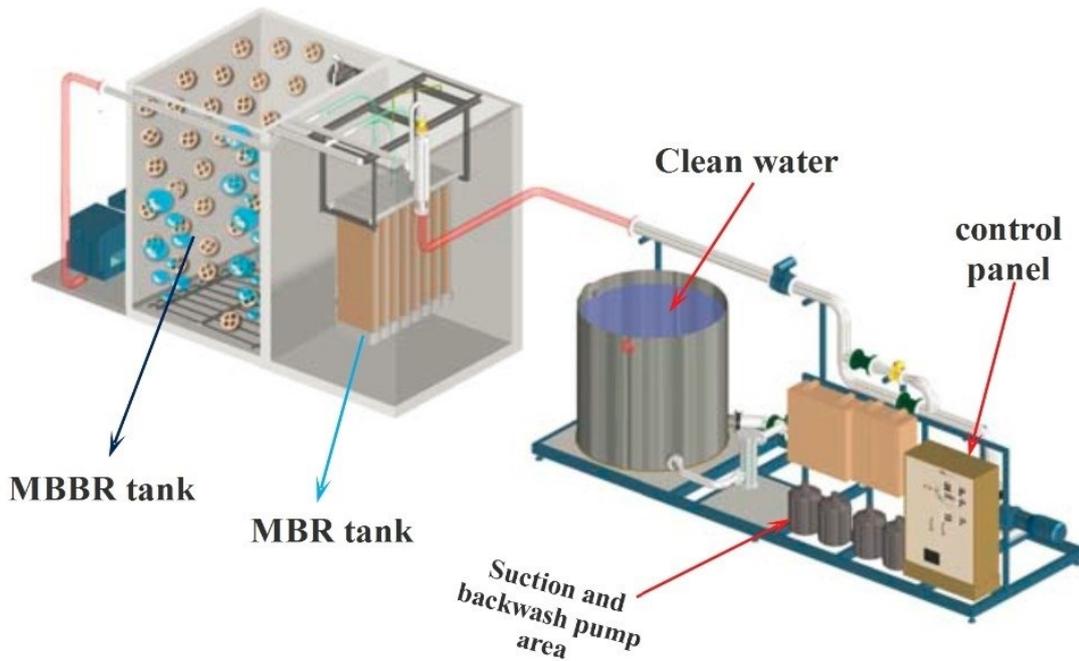


ACHIEVABLE MBR TREATMENT RESULTS

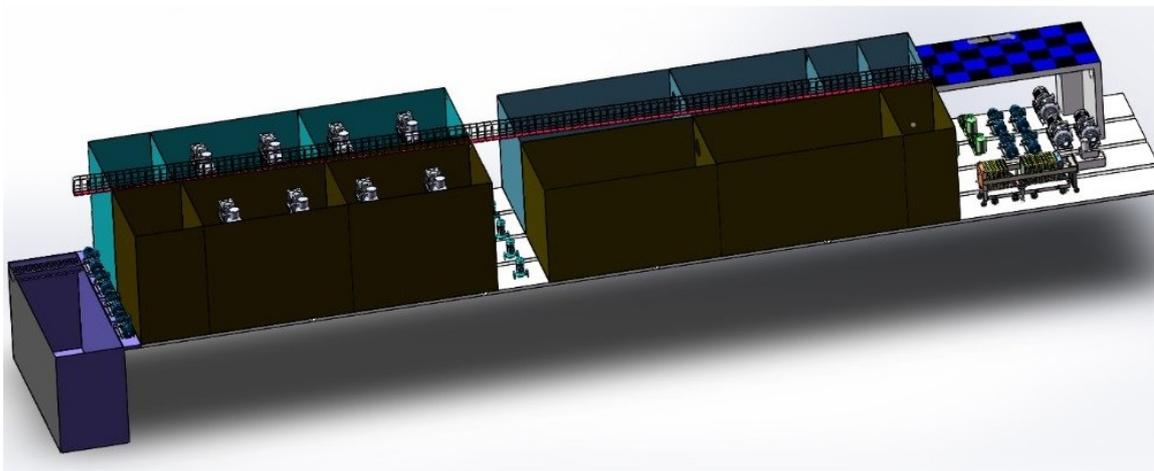
	INFLUENT	EFFLUENT
COD (mg/L)	300—500	40—60
BOD (mg/L)	100—250	2—10
NH ₃ -N (mg/L)	50—100	1—10
TN (mg/L)	50—100	3—15
TP (mg/L)	1—10	1—3
TURBIDITY (NTU)	100—250	0.1—1
E-COLI (cfu/100ml)	10 ⁶	Log6
SDI	10-50	1-3

CTE

CONTAINERIZED MBR INDUSTRIAL OR SEWAGE (WASTE WATER) TREATMENT EQUIPMENT



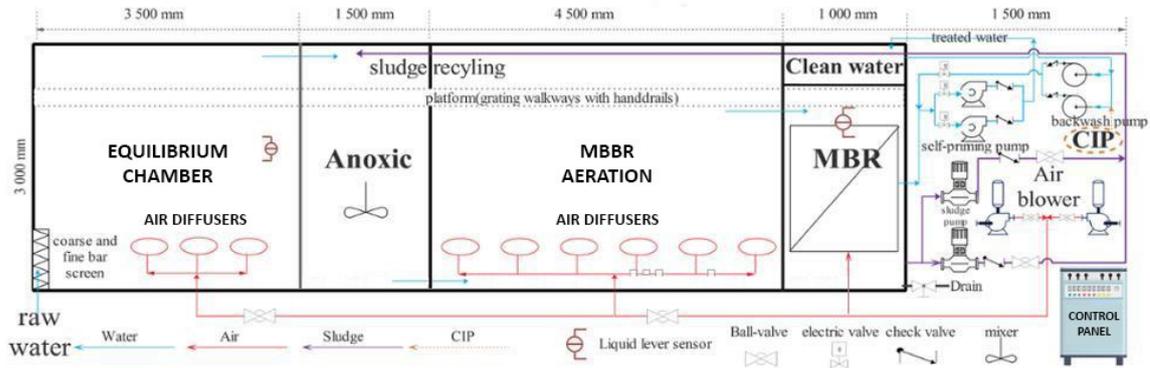
INTEGRATED MBBR & MBR SEWAGE TREATMENT PLANT



CTE

CONTAINERIZED MBR INDUSTRIAL OR SEWAGE (WASTE WATER) TREATMENT EQUIPMENT

LAYOUT AND FLOW CHART OF THE MBBR & MBR WASTEWATER TREATMENT PLANT
150,000 L/day

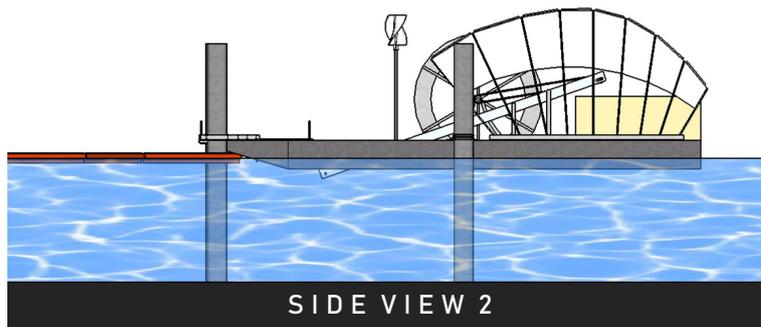
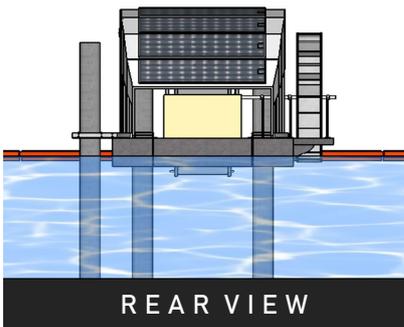
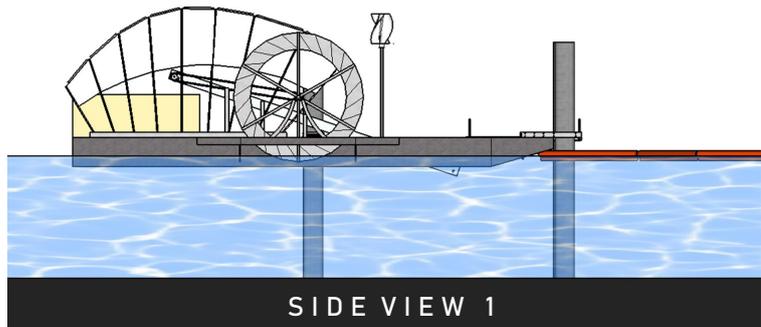
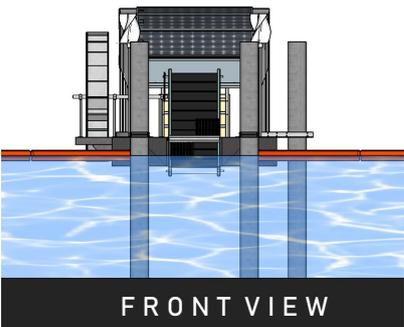
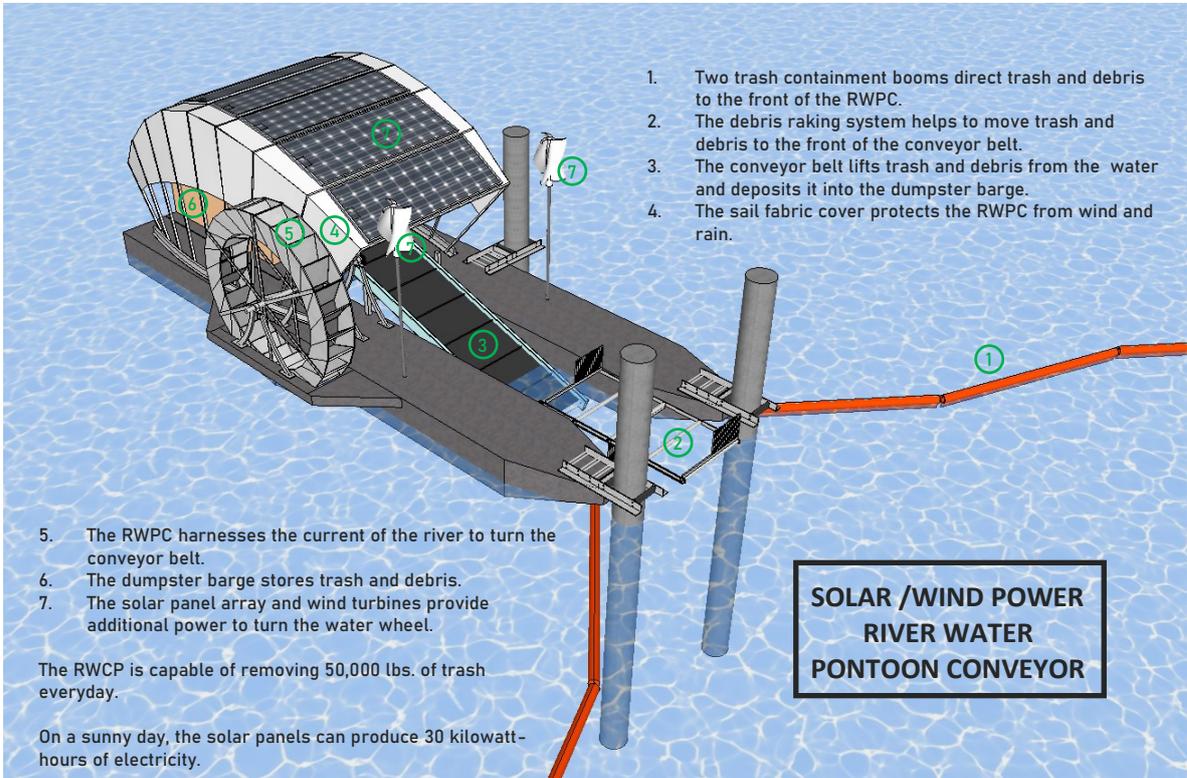


MODELS	CAPACITY	DIMENSIONAL AREA REQUIRED
FEX-MBBR-50	50 CMD	10 SQ.M. (2 x 5)
FEX-MBBR-100	100 CMD	15 SQ.M. (3 x 5)
FEX-MBBR-150	150 CMD	20 SQ.M. (3 x 6.5)
FEX-MBBR-200	200 CMD	25 SQ.M. (4 x 6.2)
FEX-MBBR-250	250 CMD	30 SQ.M. (5 x 6)
FEX-MBBR-300	300 CMD	35 SQ.M. (5 x 7)
FEX-MBBR-350	350 CMD	40 SQ.M. (5 x 8)
FEX-MBBR-400	400 CMD	45 SQ.M. (6 x 7.5)
FEX-MBBR-450	450 CMD	50 SQ.M. (5 x 8.2)
FEX-MBBR-500	500 CMD	55 SQ.M. (6 x 9.2)



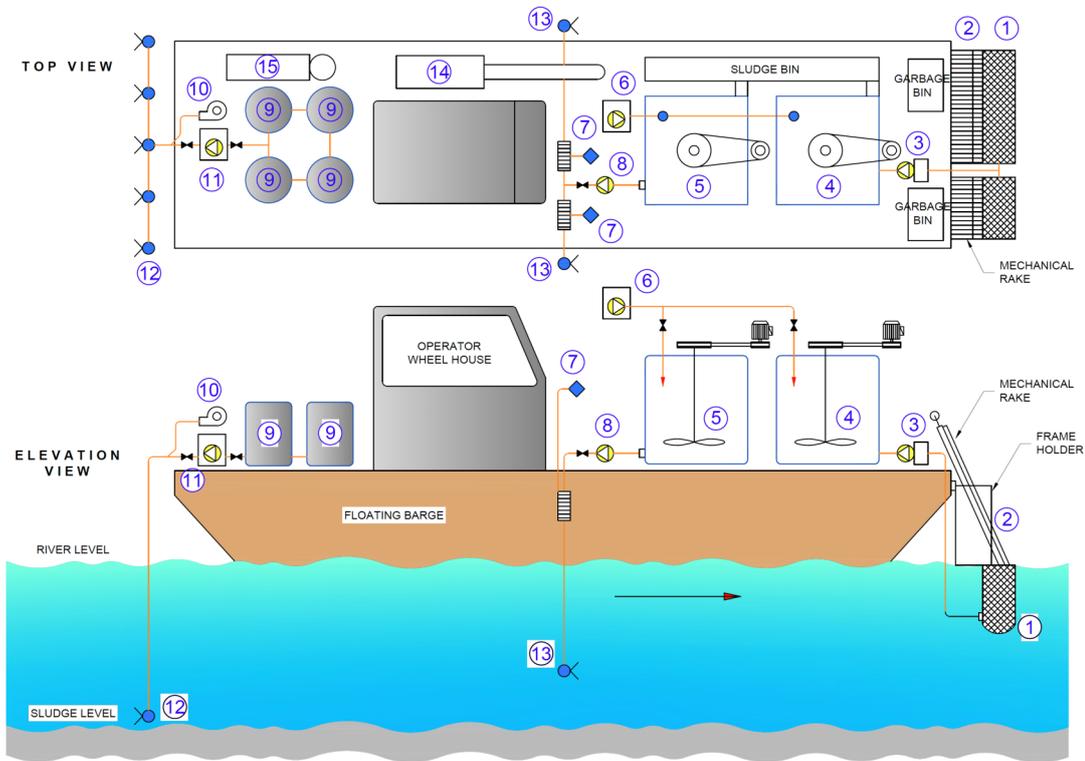
SWPC

SOLAR /WIND POWER RIVER WATER PONTON CONVEYOR

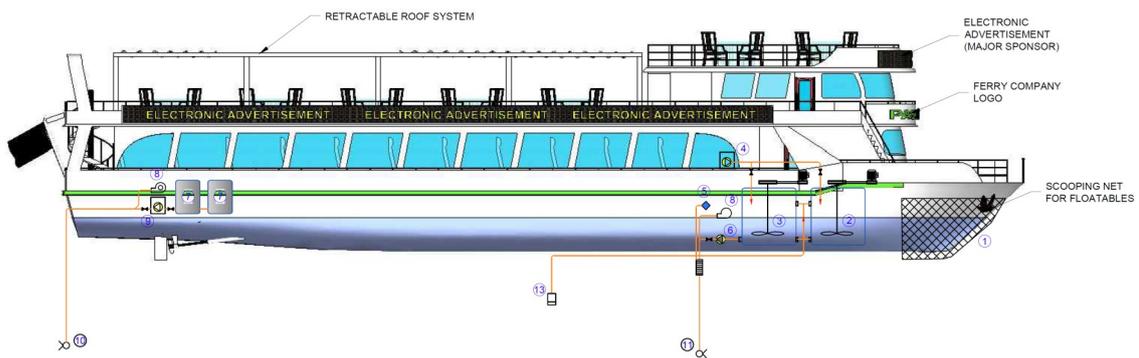


RLWR

RIVER/LAKE WATER REHABILITATION AND CLEAN-UP



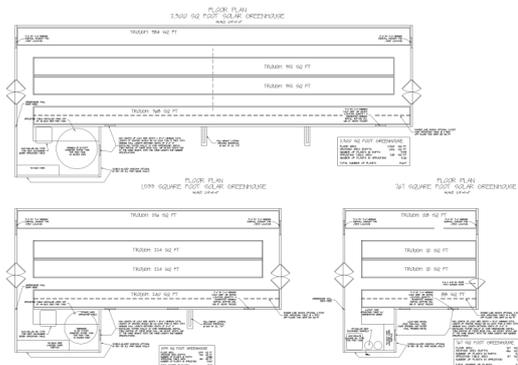
CARGO BARGE WITH AERATED/OZONATED CATALYST DISPERSION



PASSENGER FERRY BOAT WITH AERATED/OZONATED CATALYST DISPERSION

GTFT

ADVANCED GREENHOUSE TECHNOLOGY FOR SPECIALTY HERBS USING FERHUMILIGATION TECHNOLOGY



EXTERIOR FEATURES & BENEFITS

- 1 Door A pre-hung, heavy-duty storm door complete with locking latch, and adjustable tempered glass window and screen for extra ventilation. Free door drop offered too! Can upgrade to commercial storefront door if required.
- 2 Vents All greenhouses have free extra wide roof vents and automatic openers for worry free gardening. We are the only manufacturer that incorporates weather stripping into our designs too!
- 3 Walls Option of removing one gable wall to attach to an existing house which provides easy access to water/electricity and improved energy efficiency.
- 4 Design High quality structural design that can be customized for any project, size or slope. We're modular, built in strong 2ft sections and extension kits are available if needed.
- 5 Extra high 5' 6" sidewalls perfect for tall plants and shelving

INTERIOR FEATURES & BENEFITS

- 6 Aluminum Heavy duty aluminum frames masterfully engineered to withstand high winds and heavy snowfall. Rated the strongest greenhouse on the market today and are rust and maintenance free!
- 7 Glazing Our glazing options can be intermixed in the same greenhouse to add extra insulation and light diffusion where it is needed while maintaining aesthetic appeal and optimal visual effect where desired.
- 8 All structures built with tempered safety glass for your peace of mind
- 9 Continuous bolt track system allows for endless staging and accessories inside greenhouse
- 10 You can place a 50 pound hanging basket spaced out on every glazing bar

MRRF

MATERIALS RECOVERY AND RECYCLING FACILITY



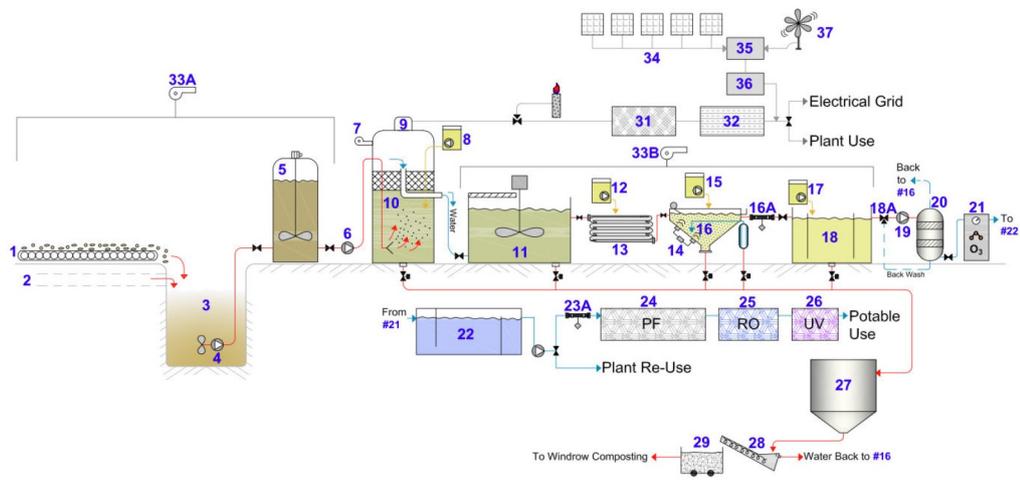
MRF FACILITY



EMTERRA RECYCLING FACILITY ORGANIC WASTE TO POWER



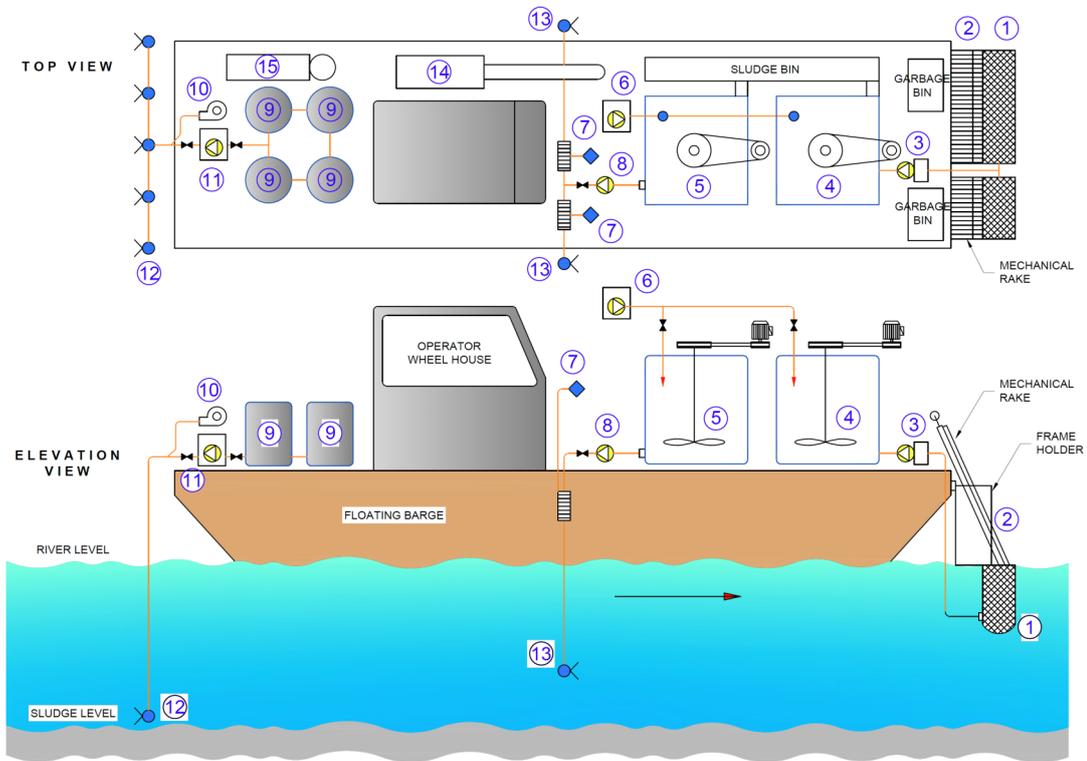
EMTERRA RECYCLING FACILITY ORGANIC WASTE TO POWER



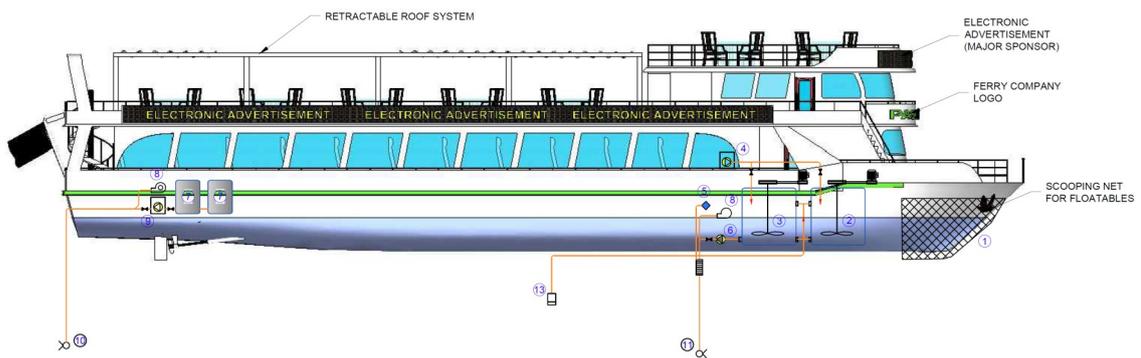
PROCESS CHART ORGANIC WASTE CONVERSION TO POWER

BFGD

FLOATING BARGE/FERRY BOAT WITH CATALYST DISPERSION FOR RIVER/LAKE WATER REHABILITATION



CARGO BARGE WITH AERATED/OZONATED CATALYST DISPERSION

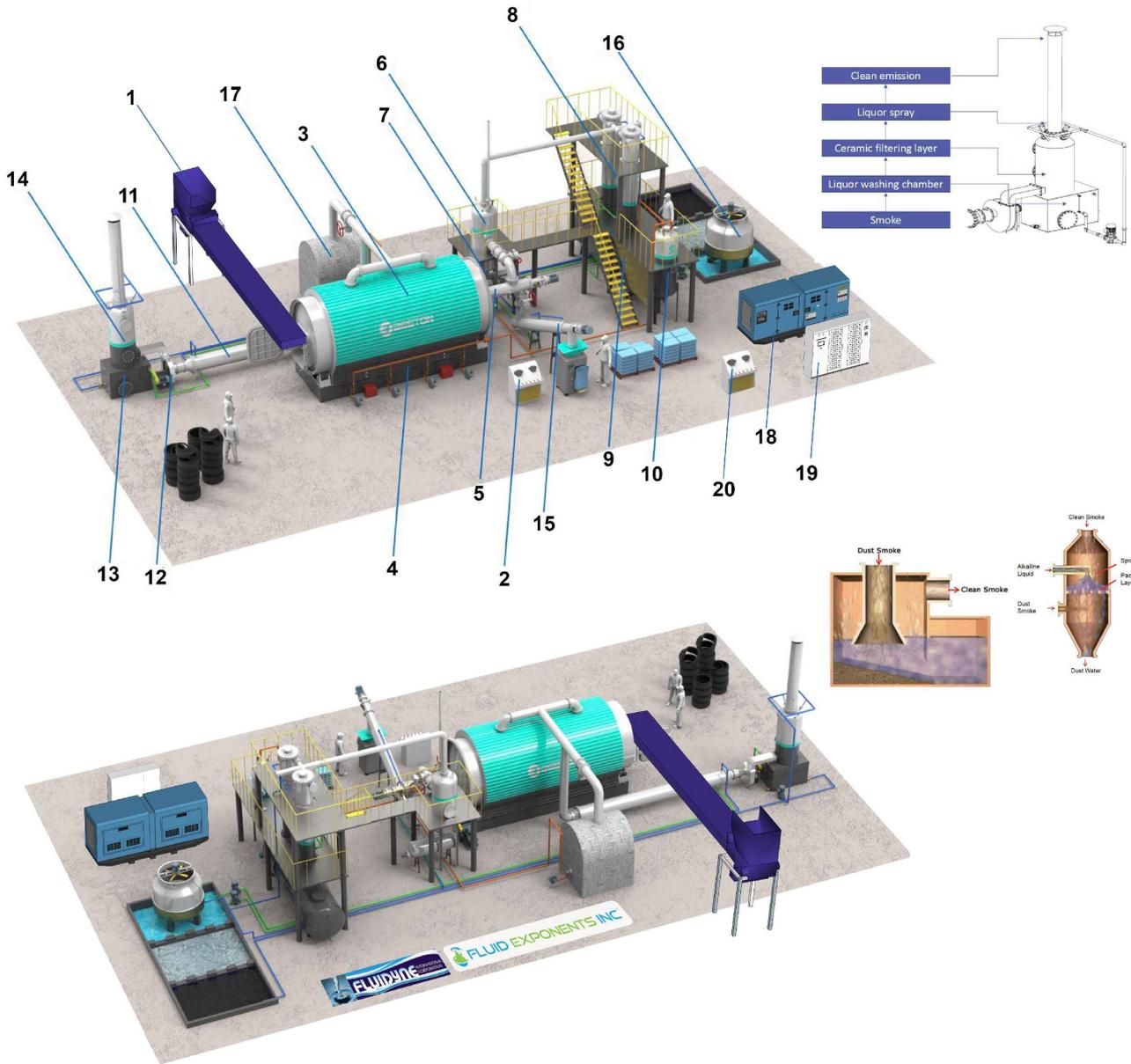


PASSENGER FERRY BOAT WITH AERATED/OZONATED CATALYST DISPERSION

TPC

TIRE / PLASTIC CONVERSION TO FUEL / POWER

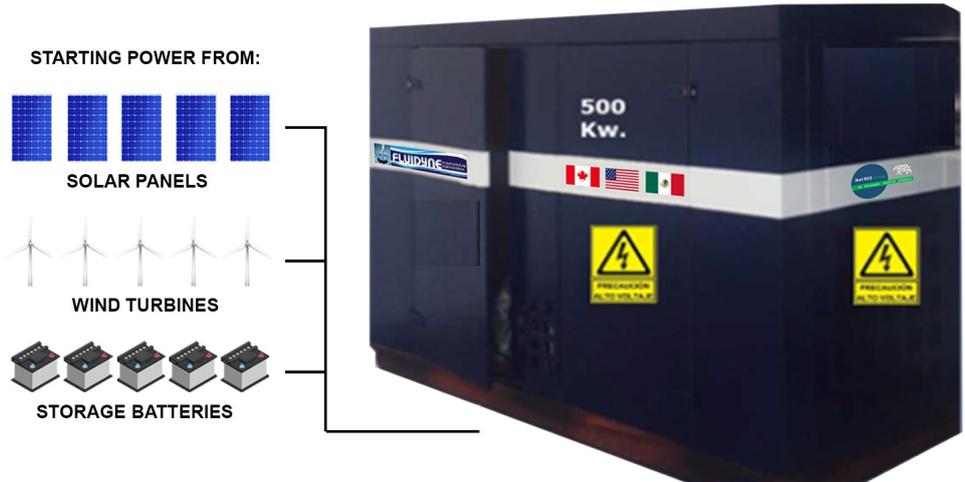
1	Shredding System with Auger Feeder	6	Gas Separator	11	Flue Tube Condenser	16	Cooling Tower
2	Control Cabinet	7	Heavy Oil Tank	12	Draft Fan	17	Extra Gas Burning Room
3	Reactor	8	Vertical Condenser	13	Atomized Water Tank	18	Diesel Power Generator
4	Reactor Base	9	Oil Tank	14	Spray Tower	19	Switch Gear / Substation
5	Screw Conveyor	10	Hydro-Seal	15	Water-Cooled Conveyor	20	Power Generating Controller



MGN

MAGNETIC POWER GENERATOR

Alternative Electrical Power Generation

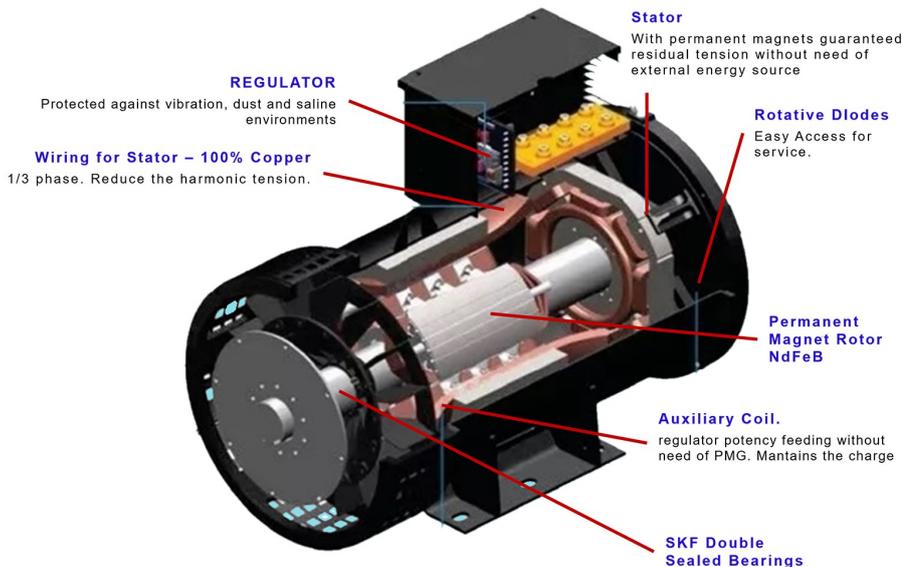


FOR: RESIDENTIAL, COMMERCIAL AND INDUSTRIAL APPLICATION

SAVINGS TO 70% ON-GRID INSTALLATION

CAN BE FULLY INDEPENDENT ON OFF-GRID INSTALLATION

>95% EFFICIENCY, 24/7 OPERATIONS, 20 YRS OPERATING LIFE



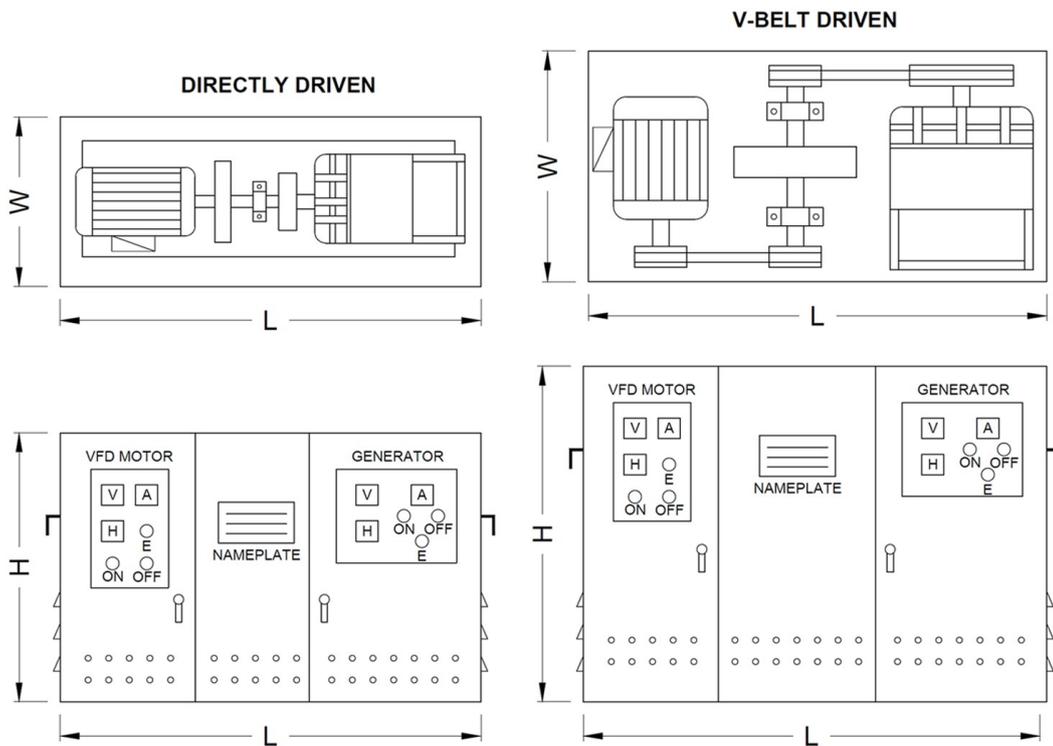
TECHNICAL INFO

Power: Up to 4,200 Kva.
Low Tension: 110 to 690 Volts.
High Tension: 2,300 to 13,800 v.
Frequency: 50 and 60 Hz.
Number of poles: 4,6,8,10,16
Housing 160 la 630 (IEC)
Protection Grade: IP21.
Class: IP54

MGN

MAGNETIC POWER GENERATOR

FLUIDYNE MAGGEN Model Volt/Phase/Hertz	Kw/Hp equiv.	Start HP	Run Hp	Speed rpm	L * in	W * in	H * in	weight kgs	Output Current Amps	Net Current Delivered Amps	% savings
110-220V/1PH/60Hz											
10KW	7 10	2	1	1800	40	18	24	80	75	65	82
20KW	15 20	3	2	1800	44	20	26	130	160	130	77
30KW	22 30	5	3	1800	48	24	30	190	235	182	73
220V/3PH/60Hz											
30KW	22 30	5	3	1800	48	24	30	190	68	56	78
40KW	29 40	7.5	4	1800	54	28	36	250	89	71	75
50KW	36 48	10	5	1800	60	32	40	300	111	88	75
440-575V/3PH/60Hz											
75KW	50 67	15	7.5	1200	66	32	44	380	96 87	81 72	80
100KW	72 97	20	10	1200	72	36	48	430	111 98 91	78 78	75
200KW	144 193	25	15	1200	78	40	54	500	222 170 184	141 141	78
300KW	216 289	30	20	1200	78	40	56	550	333 255 272	208 208	77
400KW	288 386	40	25	1200	78	42	56	620	444 340 367	281 281	78
500KW	360 450	50	30	1200	84	48	58	700	555 425 447	348 348	76
600KW	432 547	60	40	1200	84	48	58	790	666 510 528	416 416	75
* approximate											



DIMENSIONAL DRAWINGS (SPACE REQUIRED)

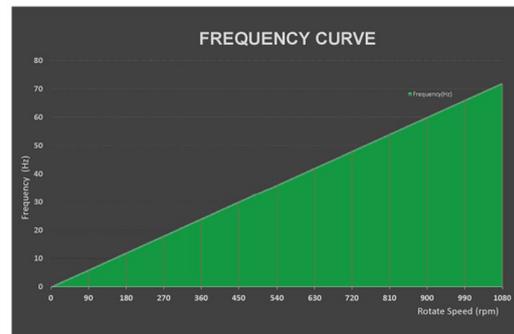
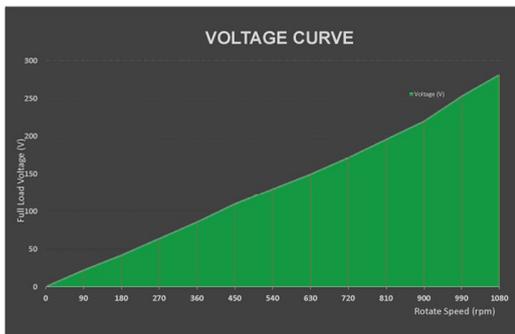
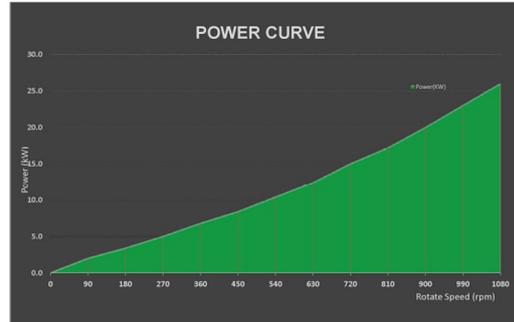
MGN

MAGNETIC POWER GENERATOR

PERFORMANCE TEST



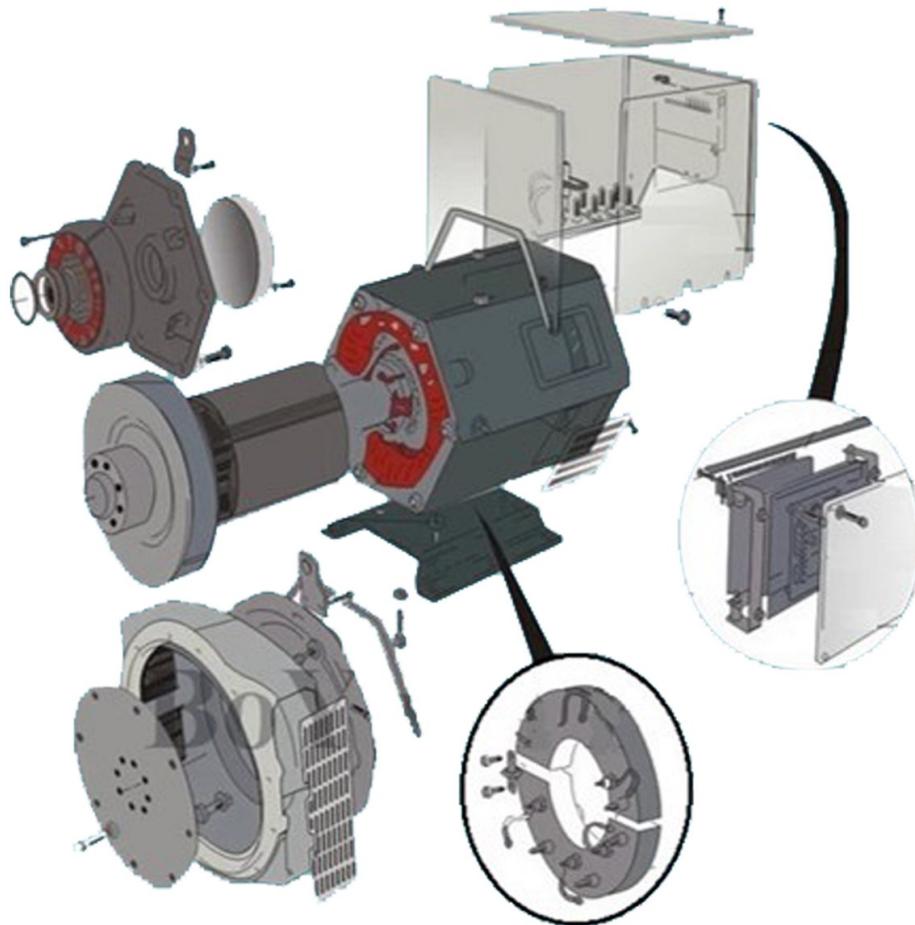
NO.	Model	Speed(rpm)	Power(KW)	Voltage (V)	Frequency(Hz)
1	200 kW	0	0.0	0	0
2		90	2.0	22	6
3		180	3.4	42	12
4		270	5.0	64	18
5		360	6.8	86	24
6		450	8.4	110	30
7		540	10.4	130	36
8		630	12.4	150	42
9		720	15.0	172	48
10		810	17.2	196	54
11	Rated	900	20.0	220	60
12		990	23.0	253	66
13		1080	26.0	282	72



MGN

MAGNETIC POWER GENERATOR

How the multiplying alternators work?



Determining the algorithm of working we reduce the magnetic traction of the motor, in this case the magnetic alternator have a reduced effect supplying the energy.

Increasing the efficiency with reduced cost is capable of producing more energy than its operation cost.

Technological advance in accordance with the Laws of Physics.

MGN

MAGNETIC POWER GENERATOR

FEATURES	
Rated Power	10kW to 500kW
Speed	900 to 1800 rpm
Rated Voltage	110V, 220V, 440V, 575V (50 or 60 Hz)
Starting Torque @ 1-2 secs	30% of Output Torque
Running Torque @ Continuous Speed	15% of Output Torque
Output Current	70% of Rated Power Average
Number of Poles	6, 8, 10, 12, & 16
Generator Type	AC Synchronous
Magnet Type	NdFeB
Winding Method	Y
Magnet Temperature Level	Max @ 120° C
Winding Temperature Level	Max @ 180° C
Efficiency	>95%
Insulation Grade	4
Insulation Resistance	100 Mohm Min (500 Vdc)
Protection Grade	IP21
Classification Degree	IP54
Generator Shell Material	Cast Iron
Winding Material	100% Copper
Shaft Material	Stainless Steel
Iron Core	Cold Rolled Silicon Steel Sheet
Bearings	Sealed, Double, SKF
Cooling Method	Fan Cooled
Installation	Horizontal Direct or V-Belt Driven
Enclosure	Powder-coated Steel 1/8" min. thickness with Steel Baseplate, with internal acoustic panels
VFD Rated Starting Motors	
Noise Level	25-30 Decibels

BENEFITS

- Smooth starting, less vibrations
- No electro-magnetic interference
- Direct-coupled or V-Belt Driven
- Variable Speed Driven System
- No Gear Box, permanent magnet, less parts
- High Efficiency @ >95%
- Power Factor close to 1.0
- Insert permanent magnet, clockwise or counter-clockwise rotation
- Generates high voltage, high current at lower speeds
- Absorbs and correct surges
- Long-life performance > 20 years at 24/7 operation
- Customized speed, voltage, power, and frequency
- Distributors are well-trained, carry spare parts and units for immediate replacements
- Can be combined with solar, wind turbines, storage batteries, flywheel, and fuel cells
- On-grid and off-grid installation
- Operates at temperatures -10°C to 50° C
- Applicable to Residential, Commercial, Construction, High Rise Building, Industrial, Hotels, Hospitals, Condos, Apartments, Clinics, Malls, Stores, Delis, Cottages, Farms, and other remote areas.